Imima Journ

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 1633.—Vol. XXXVI.

LONDON, SATURDAY, DECEMBER 8, 1866.

(SUPPLEMENT) {STAMPEDSIXPENCE. UNSTAMPED..FIVEPENCE.

Mining Exchange, London.

MINING EXCHANGE, LONDON.—As the rules of the Mining Exchange PROHIBIT all its MEMBERS from ADVERTISING MINING SHARES at FIXED PRICES, the Committee feel it their duty to notify that they have no means of offering redress to such of the public as may deal with those advertising shares at fixed prices.

A List of the Members can be had on application to the Secretary.

MR. JAMES CROFTS, STOCK AND SHAREBROKER,
No. 1, FINCH LANE, CORNHILL.
(Established 23 years.)

HOLDERS of mining shares Difficult of Sale in the Open Market may
find purchasers for the same through Mr. CROFTS' agency. Also parties requiring Advice how to act in the Disposal or Abandonnhent of doubtful mining
stocks may profitably avail of Mr. CROFTS' long experience on the market in all
cases of doubt or difficulty, legal or otherwise.
A considerable improvement has taken place in the PRINCE OF WALES MINE,
the latest reports being the best ever received. The shares should be held or
bought, but not sold.
The market for Copper, and Tin Mines is depressed, and prices entirely in

bougnt, but not sold.

The market for COPPER and TIN MINES is depressed, and prices entirely in favour of BUYERS.

Baukers: National Bank of Scotland, Finch-lane.

Bankers: National Bank of Scotland, Finch-lane.

MR. WILLIAM LANE, No. 44, THREADNEEDLE STREET, following SHARES:—
10 Chiverton, £7\foxion=
10 Chiverton, £7\foxion=
10 Caradon Con., £9.
20 Cen. American, 12s 6d
20 Cen. American, 12s 6d
25 Clifford, £5\foxion=
25 Carnarvonshire Conset, £5 2s. 6d.
25 Carnarvonshire Conset, £5 2s. 6d.
25 Claidbeck Fells, 16s. 3d.
25 Chortals, \$8. 5d.
26 Drake Walls, \$8. 5d.
27 Drake Walls, \$8. 5d.
28 Drake Walls, \$8. 5d.
29 Drake Walls, \$8. 5d.
20 Drake Walls, \$8. 5d.
21 Drake Walls, \$8. 5d.
22 Gothic, £2.
23 Drake Walls, \$8. 5d.
24 Drake Walls, \$8. 5d.
25 East Bassel, £2s.
26 Drake Walls, \$8. 5d.
27 Drake Walls, \$8. 5d.
28 Drake Walls, \$8. 5d.
29 Wheal Agar, 23s. 6d.
20 Wheal Agar, 23s. 6d.
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20 Wheal Agar, 23s. 6d.
21 Drake Walls, \$8. 5d.
22 Drake Walls, \$8. 5d.
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MR. LELEAN, ENGLISH AND FOREIGN STOCK AND

SHAREDBALER,
11, ROYAL EXCHANGE, LONDON, E.C.
Bankers: Robarts, Lubbock, and Co., Lombard-street.

GUIDE TO INVESTORS.—MR. LELEAN'S STOCK, SHARE,
AND FINANCE REGISTER for December (published on Wednesday
last) contains the fifth of a series of articles on the whole circle of Investments
—British and Foreign Stocks and Loans, Bank and Finance, Railway and Insurance, Gas and Water, and Manufacturing and Commercial Shares; with
such information as is necessary to guide intending investors amidst the shoals
and quicksands of the multifarious species of investments that now present
themselves; and a tabulated exhibition of all the dividend mines.

Published by Pottle and Son, it and its, Royal Exchange, London, E.C.

Price 6d., or 5s. annually.

CARNARVONSHIRE CONSOLIDATED (LIMITED), AND SHARES FULLY PAID.—Mr. LELEAN recommends the immediate purchase of these shares, now quoted \$4 to 1½ prem. An important discovery just made in one of the mines cannot fail to increase the price.

11, Royal Exchange, London, E.C.

MR. WILLIAM SEWARD, STOCK AND SHAREDEALER, 19, THROGMORTON STREET, LONDON, E.C.

R. JOHNN LITT L
STOCK AND SHAREDEALER,
77, OLD BROAD STREET, LONDON, E.C. (late of Redruth).
Immediate attention to orders by telegraph or letter.
Prompt cash settlements.

MR. T. ROSEWARNE, 81, OLD BROAD STREET,
LONDON, E.C.
Bankers: Bank of England, and Consolidated.

M ESSRS. WILSON, WARD, AND CO., STOCK AND SHAREDEALERS, 16, UNION COURT, OLD BROAD STREET, LONDON, E.C. Can recommend two good mines for investment.

WILLIAM WA STOCK AND SHAREDEALER, No. 29, THREADNEEDLE STREET, LONDON, E.C. WARD,

JOHN RISLEY, 32, LOMBARD STREET, and MINING EXCHANGE, LONDON, E.C., has SPECIAL BUSINESS in East Gren-ville, Wheal Buller, and West Caradon shares.

MR. G. D. SANDY, STOCK AND SHAREDEALER,
No. 48, THREADNEEDLE STREET, LONDON, E.C., TRANSACTS
BUSINESS in EVERY DESCRIPTION of STOCK EXCHANGE SECURITIES,
MINING and FINANCIAL ENTERPRISES, at close market prices,
BUYER of East Bottle Hill shares. Sellers state number and lowest price.
Correct Daily Price List may be had on application.
Money advanced to any amount on legitimate stocks and shares.
References exchanged.

MR. G. D. SANDY'S MONTHLY INVESTMENT CIRCULAR—SPECIAL NOTICE.—Vide all hitherto published.

MR. EDWARD BREWIS is a BUYER or SELLER, for Cash or Account, or for dealings end of the Year 1866, end of March, June, or Sept., 1867, in the undermentioned MIXES:—Chiverton. Chiverton Moor. West Chiverton. East Bottle Hill. Chontales Gold. South Condurrow. Prince of Wales. Caldbeck Fells. Caldbeck Fells. Frontino and Bolivia North Treskerby. Grenville. North Crofty. East Grenville. WANTED, an OFFER for 10 Harwood, and 20 Cashwell shares. No. 8, Warnford-court, Bank, E.C.

MR. WALTER TREGELLAS, 122, BISHOPSGATE STREET WITHIN, continues to deal, at close market prices, in all good sound VIDEND and PROGRESSIVE MINES, either for cash or the account. BUSINESS in the FOLLOWING MINES:—Great Vor, Trelawny, Emily Henrietta, Cook's Kitchen, New Clifford, East Basset, West Tolgus, Camborne Vean, West Frances, Westminster, St. John del Rey, Don Pedro North del Rey, and Chontales.

M. R. JAMES HUME, 74, OLD BROAD STREET,
LONDON, E.C. (Member of the Mining Exchange),
Executes orders in mining shares at nett prices, equivalent to 1½ per cent.
commission, and Stock Exchange securities at the usual charge.
All communications punctually attended to, and cashsent on receipt of transfer.
There are a few good mines, the shares of which are at nominal prices, and
requiring a very small outlay to secure a good interest. Money invested in such
at present may yield 500 per cent. in a few months, with scarcely any risk.

Capitalists should consuit Mr. Hume.
CHONTALES (Gold).—Mr. Hums believes there is a great chance of a rise of
50 or 100 per cent. in the shares of this property.

Bankers: The London Joint Stock Bank.

M. R. GEORGE BUDGE, No. 4, ROYAL EXCHANGE
2 Minera; 20 Maes-y-Safn; 10 Glan-y-Pool Slate; 50 East Rosewarne; 10 Caradon Consols; 25 Frank Mills; 200 Anglo-Brazilian; 50 Goginan; 65 Tolcarne
(calls paid); 5 Cefn Brwyno; 15 Penhalls; 30 South Condurrow; 50 Great Retallack; 40 Crebor; 75 Pestarena Gold; 15 North Crofty; 100 Bottle Hill; 1 Wh.
Seton; 1 Devon Great Consols; 50 Don Pedro; 40 Quebrada; 10 Vallanzasea;
100 United Mexican; 100 Hollybush Coal; 20 Hingston Down; 5 West Caradon;
150 Port Phillip; 10 Washoe Gold; 20 East Russell; 100 Mineral Rights; 200
Dale; 150 Gwydyr Park; 5 Cuddra.

Parties desirous of purchasing any of the above shares will please state number and price.

ORNISH AND DEVON MINES:—PETER WATSON'S

"WEEKL* MINING CIRCULAR AND SHARE LIST—SYNOPSIS OF
CORNISH AND DEVON MINES," &c., of yesterday (Friday, December 7),
No. 400, Vol. VIII., od. each copy, forwarded on application, contains important information on the following mines:—
North Wheal Crofty.
Wheal Seton.
East Wheal Lovell.
East Caradon.
East Wheal Lovell.
East Caradon.
St. Ives Consols.
Drake Walls.
North Treskerby.
Tincroft.

Clifford Amalgamated.
West Frances.
Chiverton Moor.
Prosper United.
Wheal Gronville.
Wheal Gronville.

North Wheal Crofty.
West Caradon.
Set Ives Consols.
North Treskerby.
South Caradon.
Wheal Kussell.
North Treskerby.
Wheal Kussell.
Wheal Mary Ann.
Also, a leading article on the present and future prospects of Cornish and 79, Old Broad-street, London, E.C.

Clifford Amalgamated.
West Frances.
Chiverton Moor.
Prosper United.
Wheal GrowIlle.
Wheal GrowIlle.
Wheal Chiverton.
Wheal Mary Ann.
Great Vor.
Frontino and Bolivia.

THE LONDON DAILY RECORD—STOCK AND SHARE LIST.—MR. PETER WATSON begs to call particular attention to the fact that nearly all the afternoon or evening London newspapers contain the prices of stocks and shares up to about One o'clock only (on same day as published), instead of Four to Five o'clock. The difficulties which shareholders and the investing public have encountered in seeking for correct and latest daily prices induced him, three months ago, at the suggestion of several of his friends and customers, to publish every evening "The London Daily Record—Stock and Share List," which is ready at about Haif-past Five o'clock, and delivered to subscribers in and around London the same evening. It is posted in time for the same evening's mail to country subscribers, who are thus enabled to get the latest prices some eight or ten hours earlier than they formerly had the means of doing. The importance of this at the present anxious moment must be obvious to all, as the daily fluctuations in prices of railway stocks, banks, financial, and other shares are sometimes very great.

It is his constant endeavour to convey the best and most reliable information (derived from authentic sources), and to give the latest actual marketable prices of buyers and sellers. Every person, therefore, interested in stocks and shares will find it to their interest to subscribe to the "London Daily Record—Stock and Share List." Those who desire to have it sent to them regularly every evening, will please sign the annexed form, and forward to Mr. Peter Wayson, 79, Old Broad-street, London, E.C.

Annual subscription, £1 is.; by post, £2 5s. Monthly subscription, by post, 4s. Single copy, 1d.; by post, 2d. ——

THE LONDON DAILY RECORD—STOCK AND SHARE LIST.

Please put my name down as a subscriber to the above Daily List, and forward the same to me. for*

Please put my name down as a subscriber to the above Daily List, and for and the same to me, for*

Name...
Address.

Date.....* Here insert weeks or months.

To Mr. Peter Watson, 79, Old Broad-etreet, London, E.C.

M. EDWARD COOKE, STOCK AND SHAREDEALER
76, OLD BROAD STREET, LONDON, E.C.
Has SPECIAL BUSINESS in Chontales, Prince of Wales, East Lovell, Frank
Mills, South Darren, and West Caradon.
Shares either for cash or fortnightly settlements.
Stock Exchange securities dealt in at close market prices.
Satisfactory references given in any town in the United Kingdom.
Bankers: Alliance Bank.

MR. C. A. POWELL, SHAREDEALER, 78, OLD BROAD STREET, and MINING EXCHANGE, LONDON, E.C. Orders to buy or sell for cash or account promptly attended to. Bankers: Bank of England.

R. E. GOMPERS, STOCK AND SHAREDEALER, 3, CROWN COURT, THREADNEEDLE STREET, LONDON. MR. JOHN BATTERS, STOCK AND MINING SHAREBROKER, 13, THROGMORTON STREET, LONDON, E.C.

M E S S R S. WARD AND JACK
STOCK AND SHAREDEALERS,
CUSHION COURT, OLD BROAD STREET, CITY, E.C.
Closing prices, Friday, Dec. 7.
Buyers. Sellers, Buyer JACKMAN

| Closing prices | Selicis. | Agar | Selicis. | Selicis. | Agar | Selicis. |

Mossrs. WARD and JACKMAN refer their friends to their remarks on p. 793 respecting the above mines.

SHARES of every description BOUGHT or SOLD, for immediate cash or the fortnightly settlement.

Bankers: London and Westminster, Lothbury.

MATTHEW GREENE, STOCK AND SHAREDEALER, ST. MICHAEL'S HOUSE, CORNHILL, LONDON, E.C. NEW TAMAR SILVER-LEAD MINE.—Seeing that a contemporary "knows nothing" of New Tamar property, MATTHEW GREENE cannot help expressing bis surprise that any broker on the mining market should be ignorant of the position and prospects of this undertaking. The shares have been dealt in by many of the principal mining brokers, both of the Stock and Mining Exchanges.

MATTHEW GREENE is always prepared to deal at close nett prices in every description of Stock Exchange securities.

Bankers: Imperial Bank.

FOR SALE, the following shares at nett prices:—25 North Dol-coath, 3s. 6d.; 50 Prince of Wales, 28s.; 20 South Callington, 40s.; 10 Westminster Lead, £5; 50 Wheal Crebor, 13s.; 50 Gwydyr Park, 2s.; 5 West Caradon, £14; 30 Garlidna, 1s.; 10 Leeds and St. Aubyn, £5. Apply to Mr. R. EMERSON, 28, Great Winchester-street, London, E.C. Advice given on the sale and purchase of shares. Eighteen years' experience in Cornwall and twelve in London.

MESSES. McNEILL AND LONG, STOCK, SHARE, AND MINING DEALERS, 31, THREADNEEDLE STREET, LONDON, E.C.

31, THREADNEEDLE STREET, LONDON, E.C.

I OVELL CONSOLS MINE.—McNEILL AND LONG beg to direct attention to this mine, the prospects of which are such that they can recommend it as the best progressive mine in the Lovell district. In 1024 shares, of £3 cach.

Reports by Capts. J. Nancarrow, Wm. Chappell, Stephen Harris, T. Curtis, W. R. Martin, and E. Kempthorne, can be received with every confidence, as they are trustworthy, and represent the real state and prospects of the mine.

The plans and sections—to be had on application—will, with the reports above mentioned, show that this mine must very shortly open out the further riches of Old Trevenen and Old Wheal Lovell lodes, which run through this sett, and upon which operations are at present being carried on. Though, as yet, only at a shallow depth, 12 fms. below the adit, the lode is worth from £8 to £10 per fathom, and promising well, both at this level and in sinking, to produce similar results to those of the adjacent mines—East Lovell, old Trevenen, Old Wheal Lovell, and Trumpet Consols.

Taking these with other prospects, shown at length in the prospectus, remnerative results may fairly be calculated upon, and a thorough development is all that is required to place this mine in a dividend-paying state.

MCNEILL and Lows recommend an immediate purchase, as the shares must shortly be much higher.

Applications to be made forthwith to Messrs. McNEILL and Long, 31, Threadneedle-street, London, E.C., from whom prospectuses, with plans and sections, can be had, and rich specimens of tin ore seen at the offices.

NVESTMENT, LOAN, AND BANK AGENCY.—

Established 1839.

BANKERS—London and County Bank.

This Agency undertakes the investment of Capital in British and Foreign Government Stocks and Joint-stock Companies upon advantageous terms.

Every information afforded to Capitalists, Trustees, and others, who seek investments of a strictly safe and eligible character.

Loans granted on Stocks and Shares having a market value, interest allowed upon deposits, and every description of Bank and Money Agency business transacted.

CHARLES PETERS, Sec.

No. 12, Clement's-lane, Lembard-street, London, E.C.

M R. CHARLES THOMAS, MINING AGENT, GENERAL SHAREDEALER, AND AUCTIONEER, 3, GREAT ST. HELEN'S, LONDON, E.C.

SALE OF MINING SHARES BY PUBLIC AUCTION. MR. CHARLES THOMAS'S NEXT SALE of MINING PROPERTY and SHARES will be HELD at the London Tavern, on thursday, the 3d day of January, 1867, at One o'clock precisely.

Persons desirous of offering shares on that day should give notice of same immediately, in order that their property may be advertised in the country papers. Yo orders received later than the 14th inst.

Address, 3, Great St. Helen's, Bishopsgate-street, London, E.C.

NUMBER of SHARES FOR SALE, for which no reasonable offer will oe refused.—3, Great St. Helen's, Bishopsgate-street, London, E.C.

MR. T. E. W. THOMAS, MINING AGENT AND GENERAL MINING SHAREDEALER, UNION CHAMBERS, UNION COURT, OLD BROAD STREET, LONDON, E.C.

MESSRS. LANE AND GIBBS, 2, ROYAL EXCHANGE, LONDON, E.C., STOCK AND SHAREDEALERS, AND FINANCIAL AGENTS, transact business in all kinds of securities at closest nett prices for

ash or account.

Parties of respectability can have transfers registered in their names previous o payment.

Daily price list on application.

Bankers: London and County Bank.

JAMES D. GENN AND CO., STOCK AND SHAREDEALERS 8, CROWN COURT, THREADNEEDLE STREET, LONDON, E.C.

MR. J. B. REYNOLDS, 70 and 71, BISHOPSGATE STREET WITHIN, LONDON, E.C.
Mr. REYNOLDS will be very happy to advise as to the best channels for investment, and cautions his clients, and his clients only, against certain prejudicial statements concerning many properties of undoubted merit and long standing

MR. THOMAS THOMPSON, MINING OFFICES,
12, OLD JEWRY CHAMBERS, LONDON, E.C.
Mr. THOMPTON recommends the immediate purchase of Westminster, New
Tamar, and New Clifford shares.

M ESSRS. CARNE AND CARTHEW,
BRITISH AND FOREIGN SHAREDEALERS, FINANCIAL AGENTS,
NEGOTIATORS FOR THE SALE OF MINES AND MINING PROPERTY OF
EVERY DESCRIPTION,
ST. JUST AND WEST CORNWALL MINING OFFICES, 12, NORTH
BUILDINGS, BROAD STREET TERMINUS, E.C.

MR. JOHN HOSKING, MINING ENGINEER,
(Late of Ashburton, Devon).

Mr. HOSKING, having had 20 years' practical experience, OFFERS HIS SERVICES as MINE SURVEYOR, VALUER of MINING MACHINERY, or to INSPECT any MINING PROPERTY, either at home or abroad. Terms on application.—14, Liverpool-street, London, E.C.

| MR. WILLIAM MARLBOROUGH, 1, GREAT ST. HELEN'S BISHOPSGATE STREET, LONDON, E.C. (Established 12 years), has FOR SALE the FOLLOWING SHARES, at nett prices:—20 No. Treskerby, £2½, do S. Condurrow, 13s. do S. Condurrow, 13

CHONTALES GOLD MINES (LIMITED).—GEORGE RICE deals largely in these shares, as BUYER or SELLER, at close market prices, and being in possession of most important information as to the prospects of the mines and market, can well advise both speculators and holders of the shares when to sell or buy to their advantage.—Dec. 7, 1866.

EORGE RICE recommends the purchase of WHEAL CREBOR, selling at 10s. per share, or £3000 for the mine. PRINCE OF WALES, in same district, is now selling for 25s. per share, or about £17,500 for the mine. GEORGE RICE recommends the purchase of WHEAL GRENVILLE, selling for £1 6s, per share, or £7800 for the entire mine. There will be a great rise in these shares within a fow months. East LOYELL now stands at £10 per share, or £19,600 for the mine.—Dec. 7, 1865.

DOVELL CONSOLS MINING COMPANY.—
BARTLETT and CHAPMAN recommend the immediate purchase of these shares while they are obtainable at par, as they are certain to have a great rise. The property joins East Lovell, and is adjacent to Trumpet Consols, Trevenen, and Old Wheal Lovell, which have returned upwards of £900,000 worth of tin, and all the Icdes from which these returns were made pass throughtan sett, one of which is now being worked, worth £10 per fim., and improving.

EXTRACTS FROM REPORTS.

Cont. NASCARRAW states:—"The mine is just getting into working order.

EXTRACTS FROM REPORTS.

Capt. NANCABRJW states:—"The mine is just getting into working order, and its development might be commenced at once without an outlay in machinery, and with an unusual prospect of success."

Capts. JOHN CURTIS and STEPHEN HARRIS state:—"Seeing the appropriate the commenced of the commen

Capts. John Curtis and Stephen' Harris state:—"Seeing the numerous lodes this sett contains, and being in a good mining district, we have great confidence in "cecommending a vigorous prosecution of the whole of the lodes, and when properly wrought on will, we believe, prove remunerative."

Capt. CHAPPELL says:—"I consider it to be a speculation second to none in the district, as the can be raised at once."

Capts. E. KEMPTHORNE and W. H. MARTIN concluded their report by stating that:—"The present prospects warrant a vigorous prosecution, and we confidently believe that it will lead to good results."

Prospectuses, containing detailed reports, plan of the district, and longitudinal section, forwarded on application. Samples of tin from the 12 fm. level can be inspected at the offices of the company, No. 2, Bucklesbury.

BARTLETT AND CHAPMAN, STOCK AND SHAREDEALERS, 2, BUCKLERSBURY, LONDON, E.C.
Business transacted in every description of stocks and shares at lowest market prices, free of commission.

All communications will receive immediate attention, either personally or by letter.

Bankers: London and Westminster.

BRITISH AND FOREIGN INVESTMENT. PRITISH AND FOREIGN INVESTMENT,

MR. THOMAS SPARGO, 224 and 225, GRESHAM HOUSE, OLD BROAD
STREET, LONDON, E.C., TRANSACTS EVERY DESCRIPTION of BUSINE'S
IN the PURCHASE and SALE of SHARES IN BANKS, CANALS, MINES,
RAILWAYS, BRIIGES, INSURANCES, and ALL OTHER DESCRIPTIONS of
BRITISH and FOREIGN STOCK.
Mr. SPAROO has 20 years' experience of mining, ten of which he was organised
in practical mining, and ten years he has transacted business in mining shares
and stock, at 224 and 225, Gresham House, Old Broad-strees City, E.G.
Bankers: London and Metropolitan and Provincial Bank (Limited).

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Original Correspondence.

ANSELL'S FIRE-DAMP INDICATOR.

SIR,—I see by the letters which have been published in the Journal that the introduction of the Fire-damp Indicator of Mr. Ansell is stoutly opposed; this, of course, is only what might be looked for, as all scientific improvements are too apt to be looked at with a jealous eye by the practical man. But the practical miner really ought to be careful how he makes up his mind to discard these inventions, and ear a wroof of the sounders of this rise, we need only to refer and as a proof of the soundness of this view, we need only to refer to that splendid achievement of the illustrious Davy, the Safety-Lamp. Now, we do not for a moment question the ability of the Lamp. Now, we do not for a moment question the ability of the practical miner to determine whether a coal mine is safe or not; when he examines any mine carefully and the various air currents circulating in it, he can pronounce as to the safety of the mine—that is on general terms, and on a broad basis. But if we suppose that the mine is a fiery one, as often happens, he really cannot state to what extent those air-currents are vitiated by fire-damp. The Davy lamp does not indicate fire-damp much below the point of explosion, while the instrument of Mr. Ansell indicates any excess of this dam. while the instrument of Mr. Ansell indicates any excess of this dangerous element. We think that a careful consideration of all these points will lead to the conclusion that to a certain extent the science of coal mining is conducted by what is vulgarly termed "rule of thumb." While the fact is indisputable that this mode of conducting affairs is very rapidly becoming obsolete in all branches of business, and, instead, reliable data are in all cases looked for.

Mr. Ansell tells we that in one instance he assertained that the whole

and, instead, reliable data are in all cases looked for.

Mr. Anselltells us that in one instance he ascertained that the whole return air of a mine was charged with this gas to the extent of 5 per cent. Now, the practical miner, on examining this return by the candle, would have known that things were far from being pleasant, yet he could not know what margin of safety he had; and, again, if several miners had examined the same place, a difference of opinion would have been found to exist on this important point. From all this we contend that such an instrument as this would prove of great benefit, and would, if carefully attended to, most certainly prevent many explosions. The state of fiery mines is continually changing, and what we want is a correct register of these changes, and an account from day to day, and from hour to hour, of the actual state of the air in coal mines, whether they be lighted by means of open lights, or by means of the safety-lamp. If one of Mr. Ansell's of open lights, or by means of the safety-lamp. If one of Mr. Ansell's instruments were placed in the main return, and one in each of the districts, the officers would zoon get accustomed to their use, and would register their indications just as they now register the barometer and thermometer, and, without doubt, this would prove of great service,—Newcastle-on-Tyne, Dec. 5.

M. E.

DETECTION OF FIRE-DAMP-No. II.

SIR,-In whatever form gas may have been retained during the decomposition of vegetable material, and the process of the formation of coal, may perhaps be satisfactorily explained; admitting, as it does, of different theories, each supported by opinions obtained from observations taken merely to favour preconceived ideas and expressed opinions, which in the end may tend rather to excite our enquiry than satisfy our judgment. One feature connected with this gas is, that it is a body to be encountered, more or less, in nearly all coal mines, and its characteristic danger is such as to render it a necessary duty to be provided with sufficient means for successfully encountering and combatting the same, converting it into a harmless

encountering and combatting the same, converting it into a harmless mixture with pure atmospheric air, for unless there be always a plentious supply of pure air where gas is evolved, to dilute it so as not to be appreciable, we cannot consider ourselves free from the danger it is capable of producing.

We consider it unnecessary to enter into the chemical details of the composition of this gas, except briefly stating that it is composed of carbon and hydrogen, is said to be transparent, colourless, inodourous, and tasteless, when pure, or diluted with atmospheric air. But I think it would prove a matter of no small difficulty to persuade an experienced miner of its possessing all the above-named qualities in common, inasmuch as it is generally found mixed with other bodies, or gases, evolved in the mine, as well as from animal respiration becoming incorporated with it, rendering, in many cases, its presence easily detected by the peculiar odour emitted therefrom. I doubt not but that many of your readers will have heard the expression of smelling gas often used by those whose duty it may be to examine the mine. That such taste or odour is due to the presence of, and in proportion to, some foreign body contained therein, is sufficiently clear from the fact that the strength of such odour is in proportion clear from the fact that the strength of such odour is in proportion to the impurity of the atmosphere with which it is diluted. We generally find, from actual observation, that the detection of gas in all places where pure atmospheric air is regularly circulating requires the most delicate care and observation, owing to the action of gas upon the flame in such an atmosphere being delicate and quick;

and as no odour is emitted, its sign upon the flame becomes the only means of detecting its presence.

In the opening out, or maiden working, of a coal mine, if such be In the opening out, or maiden working, or a coal mine, it such be found to give off or emit any considerable quantity of fire-damp, it does not often entail much inconvenience, nor is it attended with great risk, if proper and efficient means be employed, and followed, for sufficiently ventilating the same; such means being comparatively small to that power required for more extensive working, owing to the circuit which the air has to traverse being comparatively short; but if those precautions necessary to the amount of gas be allowed to become disused or neglected, then the danger, to whatever extent it is capable of producing, becomes more subtle and gas be anowed to become disused or neglected, then the danger, to whatever extent it is capable of producing, becomes more subtle and difficult of detection, as the usual tests, or symptoms, which are generally employed, and accordingly judged by, are less apparent, owing to the effect produced upon the flame being such as to approach to near an explosive mixture before its presence can be manifested to any but the most experienced miners. The brightness of the blue halo which its presence casts around the flame is due to fested to any but the most experienced miners. The brightness of the blue halo which its presence casts around the flame is due to the purity of the atmospheric air with which it mixes; its odour is scarcely appreciable, and in proportion to such is its power of elongating the flame diminished. While in old workings of collieries, or in the return air-roads, when encountered mixed with an atmosphere which has become charged with the impurities incidental to a coal mine, arising from animal respiration and the effluvia con-stantly flowing from decayed material, the detection of its presence becomes an easy task; for if present under the above-named conditions it generally emits a peculiar fetid odour, seldom mistaken by an experiened man for any other body than that emitted. It likewise possesses the power of considerably enlarging or elongating any flame brought under its influence, before any danger may be apprehended of its being explosive, yet as soon as its presence is made manifest by these signs, or any other indication which may be used for its detection, caution becomes a necessary element, in with.

used for its detection, caution become s a nece drawing all lights, however guarded, and adopt means whereby its removal from the mine can be safely accomplished; it being neither wise nor advisable to attempt to proceed further into an explosive mixture, even with a safety-lamp, unless some special circumstances warrant the attempt, as it can only result in placing you in a more explosive mixture, consequently a more dangerous position, and the act will seldom prove itself equal or commensurate with increased danger in practical use, or benefits conferred, consequently ought to be avoided. This caution is unnecessary to the thoughtful or the skilled in these matters, yet it cannot be too much impressed upon others, more self-willed and reckless, which is often mistaken for confidence in a knowledge which they imagine they possess. Examples are not wanting where such have fallen victims to the folly of these attempts, and such examples ought to stimulate all to exercise the greatest care and attention in the observance of those duties sarv for the safety of the mine.

It is much to be regretted that all whose lives are so often depend-ing upon the safety-lamp, and the principles of ventilation, do not endeavour to make themselves better acquainted with subjects so

thus losing the benefits which close application to things pertaining to our daily duties often confers. From this it is not to be inferred that the colliers as a class of men are more ignorant than any other to our daily duties often confers. From this it is not to be inferred that the colliers as a class of men are more ignorant than any other class of unskilled labourers; on the contrary, I think they would bear a very favourable comparison to most labouring classes, and are now a totally different class to the discriptions of colliers given half a century ago. They are found to be in possession of a general knowledge, and some well learned in particular subjects; yet it is difficult to find anyone who has given a thought to the subject above referred to. Rapid as the stream of education and information has spread and diffused itself in the present generation, it has not been confined within its proper channels, but rather allowed to spread itself widely, leaving faint impressions of its tractor existence. By such a course the collier still stands to his daily avocation in the same comparative ignorance which he held in times gone by. For same comparative ignorance which he held in times gone by. For were they to bestow a thought, and devote a portion of that time often spent in useless and injurious agitation amongst themselves, in becoming better acquainted with those things upon which they are dependent for their safety, rather than be constantly devouring themselves with reaping the fruit of discord and discontent, sown by a few individuals with sufficient cunning to obtain for themselves by a few individuals with sumeter cultum to obtain for telemiserves that portion which alone is productive, as such knowledge would materially aid, by ensuring attention, care, and judgment in the proper use of the safety-lamp, it would, no doubt, contribute very much to diminish the danger consequent upon that careless and somewhat reckless use to which it is often subjected in their hands. Such conduct cannot but be productive of danger and loss of life, both to themselves and their fellow-workers. This has often been verified, by cyclenge brought out at inquisitions of working men. verified by evidences brought out at inquisitions of working men tampering with their lamps, and so contributing largely to the cause of the explosions we have so often to lament.

of the explosions we have so often to lament.

It being now rendered imperative by Act of Parliament for examinations of coal mines where gas is to be apprehended to be made with a safety-lamp, experience very soon enables those whose duty it is to make such inspections to detectits presence, even in a small degree. Mr. Ansell stated at a meeting held on November 3, that there might be from 4 to 5 per cent, of gas present, and yet the lamp would not indicate it, and that where his instrument showed 5 per cent, in one not the lamp made no sign of any being present. Now would not indicate it, and that where his instrument showed 5 per cent, in one pit, the lamp made no sign of any being present. Now, if Mr. Ansell will place a lamp in the hands of those whose daily practice it is to examine the mine, I have no hesitation in saying that they will denote its presence in a much smaller proportion than 5 per cent.; for he must bear in mind that a lamp in the hands of men who are practically conversant with it is a different article to that held by those who are never called upon to make such close examinations, and, consequently, are not able so readily to detect the presence of gas; in like manner will his fire-damp indicator be more delicate to his observation than it would be to those who are not so conversant wish it as himself.

not so conversant wish it as himself. whatever may be the merits or otherwise of his gas indicator, Mr. Ansell ought not, in justice to colliery owners and mining engineers, to censure them for any unwillingness manifested in believing all the merits which heclaims for it. Should it possess the defect which your correspondent, "Carbon," mentions, of not being constant in its indication, then its use as a practical instrument, upon which so much depends, might be productive of more danger than would otherwise exist in its absence, and consequently would often indi-cate a clear atmosphere where such would or might be charged with cate a clear atmosphere where such would or hight be charged with a highly explosive mixture, unless someone were placed constantly near it, so as take the first indication it made. If "Carbon" perfectly understands the principles upon which this indicator performs its operations, there is no practical man would ever think of applying it, so as to be generally depended on, under any consideration. Lord Kinnaird urges its compulsory use in coal mines. Now, were such to be enforced, I think that both his lordship and Mr. Ansell would ship from the responsibility of any explosion which might such to be enforced, I think that both his lordship and Mr. Anseli would shrink from the responsibility of any explosion which might take place, from a dependence placed upon it, where used in a practical form. His lordship states that he has heard of one objection which is made against the indicator—that it would manifest the dangerous atmosphere of some coal mines to the terror of the workman, who would not be prevailed upon to enter if such were made known. This appears like making the most of a question, and I have no doubt but his lordship, informant is urgent for the introhave no doubt but his lordship's informant is urgent for the intro-duction of this instrument into coal mines, whatever its merits may be. Surely those gentlemen who have made mining a study and a profession are the best able to judge whether the introduction and use of the instrument be practical or not, and to what extent it ought at the present to be used and depended upon. If the merits of it be such as to warrant its introduction into coal mines, it will most such as to warrant its introduction into coal mines, it will most assuredly force its own adoption, and when proved a guardian will make its use compulsory; but it would be premature to attempt such a procedure before it has been proved practically useful, for that would only tend to increase any danger which might already exist. If the statement which Lord Kinnaird made be correct in any instance, why not furnish the Inspector of the district with an indicator, so as to make manifest to the workmen the danger they are in? This is certainly an opportunity for the employment of the indicator, and I have no hesitation in stating my belief in its showing the state of the atmosphere correctly; and in this it will be found correct, and perhaps more convenient than useful, in examining a mine. This appears, I think, to be the only province in which it will ever

generally useful. become generally useful.

I trust that if it should be productive of greater safety to men that
no one will, through mere stubbornness, oppose its use; but I cannot
see how it can be so generally employed as to be entirely relied upon
for constantly denoting the state of the atmosphere of a mine, seeing
that it is not at any particular place where it is required to be denoted,
but rather at every part throughout the mine; and when we consider the length of passages through which the air is required to circulate we can arrive at some conception of the importance that exists for adopting and following that system upon which we can depend for ascertaining the state of the mine's atmosphere, rather than to adopt that upon which we might depend for such knowledge at a few places only; for were there to be twenty of such indicators placed most judionly; for were there to be twenty of such indicators placed most judiciously in a mine, and all of them denoting an atmosphere which might not create any alarm, yet such would not be any guarantee of the safety of such mine, as it is not in the circulating medium that we often encounter danger from explosive mixtures, although such may be more or less charged therewith. In proportion to the density of the atmosphere gas ooxes from every pore of the mine, and by its own gravity rises and clings to the top, so that when gobs are made, and abandoned as made, they become partially the receptacles for it. Now, some parties have ventured the opinion that gobs can, and ought to, be ventilated; but such opinion can only be held by those totally ignorant of mines, or those who have only seen them under the most favourable circumstances; consequently, both of whom are incapable

forming a just oninion Another source of danger arises from sudden outbursts, or blowers, often in places before such outbursts comparatively clear. From either of these sources the attendant danger might be forcibly manifested before any gas indicator could be noticed, so as to be of any service in keeping or averting the danger ever attending such. There having been many attempts made since the introduction of the Davy lamp to devise means whereby the danger ever attending fiery mines might be entirely averted or, at least, diminished. No doubt but might be entirely averted or, at least, diminished. No doubt but that such attempts have been the result of pure intentions to benefit their fellow-men, by lessening these lamentable catastrophes which we are so often compelled to mourn,; but it very unhappily occurs that the purest and most worthy intentions are not always rewarded with the success they merit, or we should by this time have had our coal mines rendered as safe and healthy as the situation of any other labouring man. These attempts have not yet proved themselves equal to the task placed before them. Such failures have, no doubt, been occasioned by an ignorance of that to which the means were to be applied. It may be an easy matter to understand an instrument of our own construction, and be fully acquainted with its capabilities, and when the present a condition to which it is included. to be used, but likewise in the manner and under the ordinary conditions to which they will ever be subject, and afterwards to judge them comparatively with means already applied and in use. Upon these conditions alone ought the use of such to be judged, where the safety of one sixely life is at take. safety of one single life is at stake. C. Hodgson,

COAL STATISTICS VERSUS COAL STRIKES.

COAL STATISTICS VERSUS COAL STRIKES.

* SIR,—In the Mining Journal of Saturday last I find a long and laboured letter, signed "A Looker-On," in which, with exemplary pertinacity, the writer endeavours to controvert the facts and figures given by me in an article on "The Effects of Strikes on the Coal Trade." The letter alluded to is a mere recapitulation of what the writer has published in the Lecds Mercury and Sheffield Telegraph, in both of which papers my answer appeared. But, lest your readers should be led to suppose that I made statements which I could not support on the best data, I again put "A Looker-On's" facts and figures to the test. In doing so, I shall not be led away from the point by the great desire he has shown to do me all the injury he could in his truly original remark, that there are persons who write "for their own advantage." or by his suggestion in the Sheffield. could in his truly original remark, that there are persons who write "for their own advantage," or by his suggestion in the Sheffield Telegraph, that "the miners of Barnsley will be able to appreciate such love," &c. Happily, Lynch-law is peculiar to the border States of America, and "rattening" is indigenous to the town of Sheffield, but it will certainly not be the fault of "A Looker-On" if one of those modes of silencing an opponent, whose arguments cannot be controverted, is not adopted. His suggestions certainly point in that direction. Divested of a good deal of "bunkum," "A Looker-On" complains that for a certain object I took exceptional years, having all the statistics before me; but, whilst taking credit to himself for only having Mr. Hunt's Statistics for the last two or three years, he cannot afford me to be in a similar position. But such was really all the statistics before me; but, whilst taking credit to himself for only having Mr. Hunt's Statistics for the last two or three years, he cannot afford me to be in a similar position. But such was really the case, and up to the present time I have but seen Mr. Hunt's returns for 1865. Such being the case, I will now take the figures of "A Looker-On," which are much stronger than those I first quoted, and join issue with him, and in doing so I shall have to revert to the figures which appeared in my letter to the Lecas Mereury of Saturday last, which will clearly demonstrate that the "cramming" of "A Looker-On" has been attended with unfortunate results, and that, notwithstanding his efforts, those with whom he is connected would have been considerably advantaged by his silence; but, "fools rush in where angels fear to tread." Indeed, during the past week I have received notices from many of our largest colliery proprietors endorsing the views I have expressed, and in the strongest terms possible stating their surprise at the colliers putting forward such an advocate of their views—one who, amongst other things, coolly asserts "that at no time was the coal and IRoN trades owell employed as at present!" Why, Sir, it is patent to almost every child, one would have thought, that the iron trade of Yorkshire was never worse than at present. But let the facts and figures speak for themselves; although I agree with your anonymous correspondent that they can be so manipulated as to suit the object of a writer, no stronger proof of the assertion need be adduced than that furnished by himself.

"A Looker-On" states that from 1855 to 1866 the collieries in Durham and Northumberlandincreased from 273 to 292, and in York-shire from 333 to 434: whilst, on the other hand, there was a slicht.

Durham and Northumberland increased from 273 to 292, and in York shire from 333 to 434: whilst, on the other hand, there was a slight decrease in the number of collieries in Derbyshire and Lancashire. Yorkshire, therefore, shows an increase of 111 in the number of its Yorkshire, therefore, shows an increase of 111 in the number of its collieries; but has the yield of coal increased in anything like the same ratio? That difficulty is attempted to be got over by "A Looker-On" assuming that, contrary to what is the case in Lancashire and Derbyshire, "it is clear that the smaller mines in Yorkshire have increased, and that the large ones have relatively diminished in production." Now, anything more contrary to fact cannot well be conceived, for it is well known to all persons connected with the coal interest that small collieries are fast disappearing, the tendency being to large works, as landowners will not parcel out their land in small quantities.

I have now before me the names of no less than 15 small collieries.

with the coal interest that small collieries are fast disappearing, the tendency being to large works, as landowners will not parcel out their land in small quantities.

I have now before me the names of no less than 15 small collieries, situate in the neighbourhood of Barnsley, which have all ceased to exist during the last 10 years, and in their place we have some of the largest to be found in the Riding, including Wharneliffe, Silkstone, Swaithe, Darfield, Agnes Main, Messrs. Charlesworth's, Dodworth, &c., employing hundreds of men, whilst the extinct ones did not employ tens. At present, also, some of the largest collieries in Yorkshire are in course of being opened out, such as Denaby, the new Darley Main, and one on land belonging to Earl Manvers, whilst that, according to the writer's own figures, the colliery population has increased 47 per cent. in 14 years? Having thus disposed of one of the most transparent fallacies, I will proceed to a still greater one. He says:—"The yields of Yorkshire for 1863, 1865, and 1866, and in 1858-3, and in 1864, in comparison with any other part of the country, places Yorkshire A 1." With regard to that very extraordinary statement, which will doubtless astonish every person connected with the trade, and shows an amount of ignorance of the subject by the writer of it which one could scarcely conceive possible; for, in comparison with other districts, its progress ought to be classed A Z, and this will be seen by the following figures:—In Yorkshire the colliery population has increased fully 20 per cent. during the last six years, and the returns of the quantity of coal raised in it are—For 1860, 9,284,000 tons; 1864, 8,890,600 tons; 1862, 9,255,500 tons; 1863, 9,402,500 tons; 1864, 8,890,600 tons; 1862, 9,255,500 tons; 1863, 9,402,500 tons; 1864, 8,890,600 tons; 1862, 9,255,500 tons; 1863, 9,402,500 tons; 1864, 8,800,600 tons; and in 1865, 9,355,100 tons, giving an average of 9,246,883 tons for the six years, being considerably less than the quantity raised in 1860. Dur

public to believe that he is a disinterested spectator; and, as he says in his letter, that "he is neither an agent for the men or a writer for the press," and that what he has written "has been for truth's sake." Now, Sir, I cannot allow that statement to go forth, as I assert, without fear of contradiction, that it is untrue. Mr. Holmes, of Hunslet, near Leeds, has long been one—if not the first—of the leading men connected with the Miners' Association, and for years past has frequently spoken at the miners' meetings, his great forte being the advantages of "co-operation," a subject which it is to be hoped he understands more about than he does of the coal and iron trades of Yorkshire. He is also—or has been—treasurer of the association, and a most important man indeed. So much for his assertion about disinterestedness and "the truth's sake." Having now, Sir, answered "A Looker-On," in every paper he has written to, with one exception, I must now take leave of the subject, assuring Mr. Holmes, despite his personal attack in the Bee Hire, that I am with one exception, I must now take leave of the subject, assuring Mr. Holmes, despite his personal attack in the Bee Hive, that I am far beyond his power to injure, and that his attempts to bring me into discredit with the journals with which I have been connected for years has utterly failed. I trust that "A Looker-On," in his next attempt, will act more conscientiously, for "the truth's sake," and put his name to his productions, so as to show that he is really a disinterested spectator.—Burnsley, Dec. 6.

JAS. RUGLEN.

IMPROVEMENTS IN LEAD SMELTING.

IMPROVEMENTS IN LEAD SHELLING.

SIR,—Having read the remarks of a "Mining Engineer" on the improvements made in lead ore smelting by Mr. Foster, of Lead Hills, I am astonished that one adopting that cognomen should adparently know so little of the state of lead ore smelting in his own neighbourhood, if residing in the North of England, as I suspect he is. He seems to consider that 70.5 per cent. obtained from ores containing 79 per cent. originally is a great achievement, yet there are smelting works in his own immediate neighbourhood where a proprionately large produce is obtained by the old Scotch hearth endeavour to make themselves better acquainted with subjects so and when the circumstances or conditions to which it is intended to their own safety, seeing that such is brought beneath their daily observation; yet there are few indeed who even bestow the safety-lamp becomes one of safety. Things brought regularly the safety-lamp becomes one of safety. Things brought regularly to see it in the same light is obstinacy and ignorance. In this does often the principles on which the circumstances or conditions to which it is intended to the applied are made subject to the requirements of the instrument, and when the circumstances or conditions to which it is intended to the applied are made subject to the requirements of the instrument, and when the circumstances or conditions to which it is intended to the applied are made subject to the requirements of the instrument, and when the circumstances or conditions to which it is intended to the applied are made subject to the requirements of the instrument, and when the circumstances or conditions to which it is intended to the produce is obtained by the old Scotch has from ores of a much inferior quality, and with not more than from the principles on which the applied are made subject to the requirements of the instrument, and when the circumstances or conditions to which it is intended to the produce is obtained by the old Scotch has from ores of a much inferior quality, and with not more than from the applied are made subject to the requirements of the instrument, and when the circumstances or conditions to which it is intended to the requirements of the instrument, and when the circumstances or conditions to which it is intended to the requirements of the more of a much inferior quality, and with not more of a much inferior quality, and when the circumstances or conditions to which it is intended to the requirements of the instrument, and when the circumstances or conditions to which it is intended to the requirements of the instrument, and the produce is obtained b nd

sede those adopted at Lead Hills, and yet be no improvement gene-rally; and if the latter are built on proper principles and under efficient management (except there is some very refractory substance efficient management (except there is some very refractory substance held in combination with the ores), I am of opinion that a larger percentage ought to be obtained from ores containing so much originally. Your correspondent further remarks that "at the smelting works in the North of England, where the ore is more pure, 16 tons per week is the quantity smelted at each hearth." Now there are very few smelting works in the North of England where the average percentage of the ores exceed that given above—79 per the order than those where they do exceed that given above—79 per the order than the presentage are at the present and those where they do exceed that given above—79 per cent., and those where they do exceed that percentage are at the present time smelting 20 tons per week in the Scotch hearth, but by far the major part of them smelt ores of a very much lower produce, and how Mr. Foster's hearth would succeed with such is rather and how Mr. Foster's hearth would succeed with such is rather questionable. As there are many important features in addition to the first produce, which go to prove the efficiency of a good ore hearth, which your correspondent has neglected to notice, such as the quality of the lead obtained, the percentage of lead held in the slag, the waste by evaporation, &c., he would, perhaps, kindly inform your readers how his hearth stands in respect to these qualities.

Dec. 5. GALENA.

THE CHINA CLAY TRADE OF CORNWALL-No. II. THE ROCHE MINING DISTRICT.

SIR,—I was much pleased to see my last letter published in the local papers of this county, and also in the Devon papers—that is, copied from your valuable Journal. Not of any pride or ambition to the writer, but for the object that it was written for—the benefit of the district; safe investment to the capitalist; and to give employment to the poor labourers in this district, who are now out of employment; a great many of whom are actually wanting bread, and cannot leave the place for the want of the necessary requirements to seek employment where it may be found, and even those that are in work are but badly paid. I was talking with some miners, who have been working at the china-clay works, during my travels through the district last week, and they informed me their gettings were only 10s, per week, which is the average of all the men working at the clay works. This amount is for eight hours per day, and if they wish to earn more they have to work 10 or 12 hours, which many men are obliged to do to support their wives and families; and, with the present price of provisions, I hope the proprietors will take with the present price of provisions, I hope the proprietors will take it into their most serious consideration, and let the men be fairly paid for their labour, as I know of no class of labourers in the county that are so badly paid, according to the demand for labour, and the profit on the commodity, as the poor clay men are.

I must, however, leave this, and return to my subject—the Roche

Mining District—and in doing so am glad to inform you that a most important discovery of china-stone has been made since I last wrote you. Hitherto no stone has been found within five or six miles of this place that has been saleable, although some traces of it have been this place that has been saleable, although some traces of it have been discovered here and there, which has contained too much mica, or what is termed by the clay men "shell;" but from the present discovery I am led to believe this district abounds in the china-stone as much as the neighbouring parishes of St. Dennis and St. Stephens, where from 40,000 tons of china-stone are shipped annually. The cost in labour of getting the stone at the quarries is about 2s. 9d. per ton; carriage to port, 4s. 8d.; dues, 3s.: making a total cost of about 10s. per ton delivered at the port. The price per ton may be taken at an average of from 22s. to 26s., free on board; thus leaving a clear profit to the company of from 24,000l. to 25,000l. per annum. In the sale of the stone there is a combination, in order that each clear profit to the company of from 24,000*l*. to 25,000*l*. per annum. In the sale of the stone there is a combination, in order that each party may sell a fair portion at a certain price of what is raised, one company claiming the sale of one-half, or nearly so, and the others in proportion to what is raised at their different works or quarries, which in some places are extensive, and sometimes only a few tons are found. This stone is composed of felspar and quartz, and is void of the mica, the other constituent of granite. Here is a great study for the geologist, and I have no doubt that some of your correspondents will be able to explain how this stone is found embedded in granite rock; some places in large quantities, and some places only a few tons, and surrounded on every side, and the bottom, with solid granite, containing its proper proportions.

only a few tons, and surrounded on every side, and the bottom, with solid granite, containing its proper proportions.

Having thus far given you some description of the china-stone, I shall continue the district for clay; and, taking a start from my last letter, we come to Little Johns, St. Dennis Downs, Great Guthers, St. Enedor Downs, and Trependillick, in the parish of St. Dennis, which returns from 15,000 to 16,000 tons per year. Going still further west, we come to the Great Carlogas, South Carlogas, East Carlogas, Hallen, Blown Dale, Great Treviskey, Little Treviskey, Goonkeen, and the Victoria, with many others of smaller magnitude, all in the parish of St. Stephens, in which parish alone there is from 140,000 tons to of St. Stephens, in which parish alone there is from 140,000 tons to 150,000 tons of clay sent away per year, or nearly 500 tons per day, besides from 130 to 140 tons of stone, and about 200,000 tons of clay from the parish of St. Enoder, making a total of 245,000 tons of clay per year, besides 40,000 tons of stone. The profit on the clay of this district may be fairly taken at 8s. per ton, thus giving a yearly profit on the clay of 98,0002, and from 24,0002 to 25,0002 on the stone, or a profit toesther of 122,0002, per year, and the visio still believe. a profit together of 122,000. per year, and the price still looking higher, and the demand more brisk than ever known before. And when I tell you that a company, whose lease would soon expire, has entered into a new agreement for 21 years with the lord, and to pay him 25,000. per year as dues certain, or as a minimum rent, and after that amount is paid, so much per ton for all that is raised above that amount you may well consider that there is a good wrefter at the clear. amount, you may well consider that there is a good profit on the clay; and as there is a large field open, I hope shortly to see capitalists turn their attention to this district, where they will be fully remunerated for their outlay. Having thus given you a description of the clay and stone of this district, I will in my next give your readers some account of the iron mines, &c.

ARGUS.

P.S.—Any information as to china-clay, iron ore setts, &c., can be obtained by applying to "Argus," Post-office, Roche, St. Austell, Cornwall.

MINING AS AN INVESTMENT.

SIR,—I have been a correspondent of the Mining Journal for a number of years, during which I have been of necessity a close observer of commercial affairs, especially in those departments which most frequently come under the review of the Journal. One result of my experience and observation is, that I perceive the business of mining has suffered much more than any other from adventitious causes. It appears to me that the attention of persons engaged in mining operations, investors and possible investors representations. mining operations, investors, and possible investors among the general public, ought to be called perseveringly and, if I may so say, peremptorily to these causes, until, by the force of enlightened public opinion, they cease to operate. There is a wide-spread impression at present that more money is lost by mining enterprise than by any present that more money is lost by mining enterprise than by any other in proportion to the capital risked. Never was there a delusion more destitute of even appearances to support it. On the Stock Exchange, on the Mining Exchange, in the circles where mining stock so frequently changes hands, money is won and lost by the purchase and sale of shares in mines, and this is the case with stock of every description, as the variable money market affects every other. I doubt whether it is more the case in dealings with mining shares than in most similar transactions with others, and I know that in various departments of share transactions there is more loss, and more reckless hazard of loss, than has ever been known in the that in various departments of share transactions there is more loss, and more reckless hazard of loss, than has ever been known in the purchase and sale of mining stock. But, if it were as true as it is false that more money is lost in mining share dealings than in other stock transactions, it would not in the least affect the claims of the great mining interest upon the consideration of investors. It is not in the mine, but in the mining share market, that the probability of loss exists. If shares in a mining undertaking are brought into the market for sale before the property is developed, it is purely a speculative transaction, in the unfavourable sense of that term. culative transaction, in the unfavourable sense of that term

It is impossible to say with certainty what the property in a mine will produce until it is worked, and yields the quantity and quality of ore expected; but it is not impossible for brokers and others to rig the market for the disposal of shares in that mine, and there are plenty of patrons to the art and profession of jobbing to sustain such operations. If money be lost in such instances, the loser has his own folly and avidity of gain to blame, and not the fact of his hav-ng invested in mining, nor any special risk appertaining to that

business. In fine, it is by gambling in shares, and not by investment in legitimate operations, that the losses are incurred on account In fine, it is by gambling in shares, and not by investof which it is attempted to bring disparagement upon the greatest and most productive industry in the country, and one which is fa-vourable to sober and solid investment as much as, or more, than

any other.

In illustration, or rather confirmation, of these statements, it is sufficient to refer to the fact that jobbing operations do not depend upon the value of the mine or the state of the metal markets, but sufficient to refer to the fact that jobbing operations do not depend upon the value of the mine or the state of the metal markets, but sheerly upon the facilities afforded by circumstances, and the speculative folly of individuals. This is notorious to all persons acquainted with the subject, and it is time that the general public should raise the veil, and look in upon the reality. As a mine is worked, its shares go up and down in fitful and fictitious advance and recession, not in harmony with its progressive indications, but in connection with the caprice of the market. Were this impressed upon the convictions of the investing world there would be fewer speculative dealings in shares, and more solid and extensive encouragement given to mining industry, as well as real advantage to legitimate adventurers. All successful mining enterprises require time to make the treasures embowelled in the property available to the owners. The time required varies with the circumstances of the case, and the locality. Some properties are developed in a space of very few years, but generally from five to ten years are required to bring up the wealth of the mine to a full and fair development. During such period all dabbling in the value of the shares partakes, more or less, of a gambling character. An outlay of 25,000% is a tolerably correct average of the cost of bringing a mine into such a postion. So far as my knowledge goes, these remarks apply to foreign as well as British mining. Now, probably in nine cases out of ten market operations begin as soon as the mine is opened, and, therefore, can have no legitimate commercial existence.

In this way jobbers bring mining property into disrepute, and they are countenanced by men who, making haste to be rich, grasp at

In this way jobbers bring mining property into disrepute, and they are countenanced by men who, making haste to be rich, grasp at shadows, and neglect the substance; yet these are the very persons who afterwards raise the hue and cry against mining investment.

In future communications I will resume this subject as to other of its aspects, and point out the fact which is well known to the initiated, but will appear novel and doubtful to large classes of investors—that mines, the shares of which have been eagerly the objects of traffic in the mining market, are now *non est incentus*, while others, quietly and sedulously worked, and little known beyond the

circle of proprietors, are now rapidly progressing.

Gresham House, London, Dec. 5. THOMAS SPARGO.

ON SLATE, AND SLATE QUARRIES.

SIR,—Though his "ineautious words," to which Mr. Ennor, with good reason, pleads guilty in his letter on this subject it last week's Journal, may prevent him from conveying useful informaticu, his animated discursiveness renders him an amusing correspondent. Passing over his notice of "strolling into a Welsh quarry," and a London quarry meeting, of the perishing stone of the Houses of Parliament (which by a strange blunder he fancies to be roofed with green slates), and much extraneous matter, I return to the points taken up in my letter to you of Nov. 10, showing, as briefly as I can, where he is right now, and where he repeats the errors he made before.

He now remarks that "Festiniog slates are a fair average slate to use, if made thicker." This is true; few slates, if any, make a better roof. It is something to bring him to confess this of the slates called in his letter of Nov. 3, "the fine black Festiniog, slates, the worst slate used." But he must still repeat his error on Dec. 1, calling them "Black Welsh," and saying "they all become 'smoots' in three or four years." No wonder Mr. Ennor contradicts me, when he cannot help thus contradicting himself. I must again repeat that there is not a black slate in the Festiniog Quarries. SIR,-Though his "ineautious words," to which Mr. Ennor, with

he cannot help thus contradicting himself. I must again repeat that there is not a black slate in the Festiniog Quarries.

In his remarks on different kinds of slate, Mr. Ennor confounds together strength of substance, strength of material, and strength of endurance. However good the metal may be, no slate is strong if split too thin. The roughest slates are not, as he supposes, the strongest because of their roughness, but because they have more substance than those split finer. Taking equal surfaces and thicknesses, the best slates bear more weight before breaking than rough ones, from their continuity of texture, toughness, and elasticity, whilst the same weakness or unevenness, preventing rougher slates from splitting, freely causes them to part where weakest under excessive strain. Again, no thinness of slate, though increasing its breakage from weakness, can make it more perishable from weather. Endurance, in this respect, depends on its component parts, and I breakage from weakness, can make it more perishable from weather. Endurance, in this respect, depends on its component parts, and I must repeat that the Merioneth blues keep their colour and last as well as the Bangor purples, or Carnarvon reds, with no more chance of becoming "smoots" than the latter. Mr. Ennor must know that price and substance are the main regulators of the North Country demand. They will not pay for the best slates, nor could they use them on their coarse ragged roofs if they had them. But they take the Festiniog seconds slate freely. Since the great fire, Hamburg takes blue Merioneth slates in preference to Bangor. It is a truism that composite substances derive their properties from the proportion in combination of common elements; and I must again repeat tion in combination of common elements; and I must again repeat that on the due proportion of silica combined with alumina depends that evenness of texture ensuring the most perfect lamination in

Clearing state.

Bangor slate has about 48 per cent. of silica, 23 of alumina, 10 of oxide of iron, 4½ of magnesia, and 1½ per cent. of potash, these last serving as a kind of flux to the metal, whilst a trace of manganese (more abundant in the Carnarvon reds) increases the metallic hardness. Alumina, it is true, contains the metal aluminium, but is itself an earth, earthy, causing when in excess the loss of freedom of split and metallic ring in slates, leaving them more nearly resembling. an earth, earthy, causing when in excess the loss of freedom of split and metallic ring in slates, leaving them more nearly resembling flags. Greater excess causes the cleaving slate to become a clay-slate. That iron mixed with alumina rusts and crumbles when exposed to weather many substances show, and Mr. Ennor would soon be convinced of it did he examine the really black slate, which I dare say he has never seen. It is true that iron mixed with sulphur, or powdered in the slate, is perishable, but cubes of pyrites are often found in the slate with no more weather stain round them than is caused by sprinkles of spar. sprinkles of spar.

It is quite true that all slates should be made "with the grain." hardly think he would find many slates made "across the grain amongst the best Welsh slate, as the maker knows he must lose them when the sorter does his duty. But the Cornish slate (so much praised by Mr. Ennor) used to contain several so made, which break with mere handling. This prevented them from gaining ground in Lon-don, where they were introduced in the scarcity of best Welsh slate. I have not seen this slate for some years, and know not if it is now

improved in this respect.
Finally, Mr. Ennor is as far wrong in his guesses as to my persona identity as in many other of his guesses. He says he has surveyed Festiniog quarries for many years. If so, writing as he now does of Festiniog slate, he surely must be a man whom experience cannot teach. Indeed, from his contempt of the verdict of men chosen as judges of slate for their practical skill, and from his refusal to read books from which he might learn something, I fear he belongs to that numerous class who, thinking themselves wiser than everybody else, never add to their stock of knowledge, because they fail to take the first step by finding out their own deficiencies. A MAN OF EXPERIENCE.

ON SLATE, AND SLATE QUARRIES.

SIR,—Reading over the letter by Mr. Ennor, in reply to a "Man of Experience," in last week's Journal, I am led to believe that Mr. Ennor displays in that particular letter more personal vanity than scientific ability. If Mr. Ennor be what he would lead the public to believe he is—a scientific and practical quarryman—I should feel indebted to him if he will condescend to enlighten the parties who take an interest in the development of quarries by answering the take an interest in the development of quarries by answering the

take an interest in the development of quarries by answering the following questions:—

1.—Will Mr. Ennor tell us what is the geological position of those slates he so much praises, and the position of those he condemns?

2.—What does he mean by the word "smoots?"

3.—Where can he prove the Festiniog slates to turn smoots in

three to five years?

at Festiniog to split their slates in order to make them what Mr. Ennor calls "a fair and average slate to use?"

The above questions will, I hope, Mr. Editor, be considered fair and practical; correct replies to which will add considerably to the stock of knowledge on the subject, and bear no comparison to the question asked by Mr. Ennor of a "Man of Experience"—When did alumina and silica join heart and hand to form slates?

Dolgelly, Dec. 5. ONE WHO TAKES AN INTEREST IN QUARRIES.

CAMBRIAN ERYR"-HIS SLATE QUARRY MANAGEMENT AND ACCOUNTS

AND ACCOUNTS.

SIR,—I have been reminded that the Welsh Eagle has not yet replied to any of the numerous questions which I have proposed to him in the columns of the Journal, at various times, from June 2 to September I, and that I ought to ascertain whether he is still above the clouds or down in the bulrushes. The subjects on which I have written were apparently of great interest to him, seeing that they formed the staple of four lengthy letters, from which I have only taken as yet a very few texts to comment on. The whole series will assuredly afford, for a moderate appetite, food for years, and matter for a commentary for an almost unlimited period. Perhaps the Eagle, after his lofty flights, is seeking to recruit his wasted energies in hybernating on the banks of a Welsh lake, and, possibly, with the returning spring, may again, as a Cambrian Gwydd, give evidence of vitality, and shake off his wintry torpidity. However, as I am for the moment free from the puzzling geology, chemistry, and philosophy of Cambrian, who may, for aught I know, be somewhere in the neighbourhood of Mahomet's coffin, as he has not favoured me with his half-promised reply to my rather long letter of Sept. 29, I shall bestow a trifle of time and attention upon the Eagle.

In my letter of Sept. 1, I desired the Eagle to furnish the names of his several profitable quarries, in which he had paid dividends of 20t. to 150t, per cent, per annum, as stated by him in his letter of March 17 last, but to that simple request, made in the interest of your readers, he has been so cruel as to turn a deaf car. Now, this is not exactly fair treatment either to your readers or to me, for, as he pub-

March 17 last, but to that simple request, made in the interest of your readers, he has been so cruel as to turn a deaf ear. Now, this is not exactly fair treatment either to your readers or to me, for, as he published those illuminating letters for the purpose of benefiting English speculators, and putting English capitalists on their guard against ignorant and dishonest managers (none being the right sort but Welsh), I think, to justify his own position, and confirm his otherwise very questionable anonymous statements, he should give us the names of the several quarries which he has had under his "control," and which have paid such splendid dividends.

To shrink from doing so, when challenged, is to endanger the whole fabric, built up of such excellent intentions as are reiterated in those benevolent letters, all written for the benefit of the English, and not intended in any respect to put money into the pockets of excellent and ingenious (not ingenuous) managers, like the Welsh Eagle. Certainly he cannot complain that he has not had sufficient time to furnish the information desired, and I know many of your readers have been expecting to see the formidable list every week since, and have been sadly disappointed; nor can he complain of a since, and have been sadly disappointed; nor can he complain of a want of memory, for the admirable system of book-keeping recommended by him would enable him at any time to ascertain the exact want of memory, for the admirable system to book-keeping fectors mended by him would enable him at any time to ascertain the exact amount of profit which he had realised for the lucky proprietors in the several quarries he has under his "control." His inattention to my, I venture to think, natural and proper request, has occasioned me much unnecessary trouble and anxiety, for I have made a multitude of enquiries, especially in Nantlle Vale, for those profitable 20 to 150 per cent, dividend-paying quarries of the Eagle, and am continually met with a stare of incredulity, or, what is much more galling to my feelings, a scarcely suppressed laugh of scorn at my gullibility. For I may remark, en passand, that although your readers may not generally be aware who this soi disant "Cambrian Eryr" really is, the secret has been long the subject of current jest in Nantlle Vale. But, perhaps, the fact may be that the name of one of these great prizes is only echoed to the world when a sale is contemplated; and, probably, the mode of arriving at such a splendid result as 20 to 150 per cent, dividend is that described in the following words, which I quote from the Eagle's letter of May 26 last:—
"There are many different ways of making up quarry accounts. Some are made in order to induce capitalists to invest, and show a surplus of 50 to 100 per cent, on the credit side, which, when minutely surplus of 50 to 100 per cent, on the credit side, which, when minutely examined, ought in reality to be placed on the debit side, and the consequence would be a call instead of a dividend; so it requires consequence would be a call instead of a dividend; so it requires capitalists to be very shrewd, as well as cautious, in perusing slate quarry accounts, for, when a certain object is in view, some make their accounts by charging all the expenses for outlay. There may be items of large amounts omitted in the balance accounts of work done for a month or more, but when these items are added, and credit given for preparations, the expense of slate making, officials' salaries, royalty, carriage, discount, and commissions placed against the value of slate made, it will very soon be seen that the amount is much larger on the debit side than on the credit."

One would suppose that, instead of devoting his time to the develop-

much larger on the debit side than on the credit."

One would suppose that, instead of devoting his time to the development of the Cambrian rocks, the Eagle had been devising ingenious modes of cooking quarry accounts. He says "there are many different ways of making up quarry accounts," and he gives a most curious explanation of what he means, and evidently exhibits himself as a master in the art of understanding how to do it, if he be not a practised hand in making 20 to 150 per cent, apparent profit out of actual loss. People sometimes draw pictures which are intended to represent

hand in making 20 to 150 per cent, apparent profit out of actual loss. People sometimes draw pictures which are intended to represent the minds and actions of others, but which, by a strange fatality, turn out to be the exact counterpart of themselves. "There are many different ways of making up quarry accounts," said the Eagle, and then he suggests one of the most barefaced and fraudulent. But although the account sketched by him is so objectionable in a moral and commercial point of view, and could only, I should have thought, have been conceived by a mind practised in the art of "making up," such is the extraordinary effect of imitation on human action, even in things most solemnly condemned, that people, as it were, unconin things most solemnly condemned, that people, as it were, unconsciously glide into the perpetration of those vices which it has been the practice of their lives to denounce to the world. Who does not remember the lines of the poet, impressed upon our rudimentary minds in childhood :

"Vice is a monster of so frightful mien,
As to be hated needs but to be seen.
Yet, seen too oft, familiar with her face,
We first endure, then pity, then embrace."

on no other hypothesis can it be conceived possible that the Eagle should himself have framed such an account as the one published by me in the Journal of July 21, being the account for working, not only a quarry, but the quarry in which he boasted of making 7000l. worth of slates, but forgot to say at a cost of 9000l. I must beg to refer your readers again to that letter, and the account therein contained. I therein re-stated, as it were, the very substance of what On no other hypothesis can it be conceived possible that the Eagle appeared in the denunciatory letter of the Eagle on May 26 last, but overlooked the conclusive authority of the Eagle himself for my remarks. I then said the preceding account is ingeniously stated to show a profit on the working for fifteen months of 1150%. 11s. 9d., by keeping back, as will be observed, in the first column every month a large amount set down as preparations, or opening new works, stock of implements, &c., while if these sums are included a loss of 1405%. 4s. 43d. will be found to be the truth, and the difference between the account rendered and the account as it should have been is only the trifling amount of 25551, 16s, 13d.!

What an exact copy of the system of "making up accounts" which the Eagle said it required capitalists to be "very shrewd, as well as contious in promising." This root to be accounted to the system.

which the Eagle said it required capitalists to be "very shrewd, as well as cautious, in perusing!" It is not to be wondered at, after such a specimen of "making up," that the whole of the accounts I have referred to should remain unvouched and unsettled to this day. Not a very satisfactory specimen of Welsh management for "English speculators" and "English capitalists" to contemplate, for whose especial benefit the Eagle has plucked from his own pinion "a grey goose quill," and tried how much, like many other sympathising sake an interest in the development of quarries by answering the following questions:—

1.—Will Mr. Ennor tell us what is the geological position of those lates he so much praises, and the position of those he condemns?

2.—What does he mean by the word "smoots?"

3.—Where can he prove the Festiniog slates to turn smoots in hree to five years?

4.—Whatthickness would herecommend those misguided managers

4.—Whatthickness would herecommend those misguided managers slate strata" in 12 or 18 months. I do not wish to be hypercritical but as the Eagle surveys this world from above, he may be able to inform me if there are any "perpendicular slate strata, THOMAS HARVEY.

CRUSHING ORES AND MINERALS

CRUSHING ORES AND MINERALS.

SIR,—The general introduction of the useful contrivance known as Blake's Stone-Crusher has led to the patenting of improvements calculated to render the machine still more efficient. Amongst the latest modifications is that of Mr. James Frost, of Dudley, which consists in the use of a cam or crank fixed to a fly-wheel shaft, and giving an oscillating motion to a vertical lever, the lower end of which is connected by links to the lower end of another lever, to the upper end of which is cast or fixed the press block; facing the press block is a steel plate or a chilled cast-iron plate, which is fixed to the framing of the machine. The press block and the chilled plate are ribbed, and they are placed at an angle to each other, with the wider part upwards. The stones, ores, or other substances to be broken or crushed are placed between the chilled plate and the press block, consequently when the machine is at work the forward motion of the press block reduces the lumps to fragments, which finally drop through, when reduces the lumps to fragments, which finally drop through, when the fragments are brought to the size required. The size of the ribs on the chilled plate and press block, and the distance between them, can be regulated according to the size of the fragments required.

Bridport, Dec. 4.

H. C. F.

THE MINERAL AND INDUSTRIAL RESOURCES OF NEWFOUNDLAND-No. I.

NEWFOUNDIAND—NO. 1.

SIB,—Within the last few months a circumstance of peculiar interest has rivetted the attention of the civilised world to a comparatively diminutive island, situated in the Atlantic, and at a distance of somewhat less than 1800 miles west of Ireland. Newfoundland, for upon this now most interesting district I am about to dwell, claims no distinction from its size, nor from any remarkable feature in its historic antecedents. It is about 300 miles long from east to waste and 200 miles wide from north to south. It possesses a climate in its historic antecedents. It is about 300 miles long from east to west, and 230 miles wide from north to south. It possesses a climate more severe than that of England, is visited by boisterous winds, and frequently exposed to the influence of fogs of remarkable density, but which fall far short of those which have been assigned to them by cursory observers, who have made a lantern an indispensable auxiliary, even at noon-day.

As an agreeable set-off against the inconvenience of these unusual fogs, it must in justice be remarked that the climate of Newfoundland is very salubrious, and instances of great longevity are by no means rare; in fact, the climate may be considered exceedingly conducive to health and long life, whilst the habits of the residents are

means rare; in fact, the climate may be considered exceedingly conducive to health and long life, whilst the habits of the residents are such as tend to aid materially the natural conditions referred to, and to produce a race of hardy, stalwart islanders, unexcelled in any other portion—home or colonial—of Her Britannic Majesty's vast dominions. Of the population of Newfoundland it may be remarked, in the language of a recent explorer, Sir Richard Bonnycastle, "It is no longer a fluctuating one, but composed principally of a new race, which is constantly springing up, and who, being born on the soil, cherish and fondly adhere to it."—"A residence of several years in Newfoundland has made me thoroughly acquainted with the habits, character, and disposition of the natives. They are hardy, industrious, and easily led; and whilst under the direction of skilful overseers, they become themselves skilful and efficient workmen. Plain and frugal in their habits, their wants are few, and those of the most primitive character, and it requires but fair dealing, and the punctual performance of all engagements made with them to secure their entire confidence, and utmost endeavours to promote the best inteentire confidence, and utmost endeavours to promote the best interests of their employers." Again, "This most ancient and important settlement has been looked upon merely as a great nursery for hardy seamen, rather than as an immense adjunct to the trade, the power, and the resources of the empire, or as the real key of the continent of North America. Previous writers, who possessed not the requisite facilities in the colony itself to develope its resources, have been con-

facilities in the colony itself to develope its resources, have been content to devote it to the purpose of a mere fishing station, whilst it possesses merits far beyond such a destiny, and is now about to assume a very important position as a British colony."

Prior to entering upon the subject of the industrial resources of Newfoundland, as exhited in its unparagoned fisheries, herds of deer, smaller quadrupeds valuable for their skins, forests of trees, extensive savannahs, and most particularly its illimitable mineral treasures, which seem to permeate the soil, from the vast lead deposits of Placentia Bay at the east, to the carboniferous rocks of St. George's Bay at the western extremity of the island, let us pause for a moment to consider the importance Newfoundland can now assume as the first station between the two grand centres of commerce—Engment to consider the importance Newfoundland can now assume as the first station between the two grand centres of commerce—England and America—of the Atlantic Telegraph Cable. Despite all adverse prognostications, trying difficulties, and disheartening failures, this gigantic undertaking has become what our Gallican neighbours would designate un fait accompti. After spanning the dreary waste of waters, upon whose base it appears to rest as though it constituted an original atom thereof, and that, too, at a profundity of not less, in some localities, than 2000 fathoms, between Valencia, an insignificant village or hamlet at the extreme west of Ireland, the cable obtains its first land focting at Trinity Bay, Newfoundland, the nearest tract of ground in the opposite American shore, after being extended (in a direct line) a distance of some 1800 miles. It is a feature worthy of record, that in carrying out this gigantic and wonderful scheme of scientific research and mechanical ingenuity, the joint aid of the talents of the two branches of the Anglo-Saxon race were evoked, and by their combined efforts it was brought to a successful issue; whilst in both countries the event has been celebrated by inter-

evoked, and by their combined efforts it was brought to a successful Issue; whilst in both countries the event has been celebrated by international rejoicings, and each has vied with the other to do homage to the originators and executive, without the slightest display of partizanship or jealous nationality.

In whatever light we contemplate this grand undertaking, we cannot fail to regard it as fraught with stupendous moral, intellectual, social, and commercial consequences. By its agency two countries, separated by the vast span of a trackless ocean, are in thought and speech united. For nearly a century these distant States have exhibited towards each other petty jealousies and fretful annoyances, arising, in a great measure, from traditionary misunderstandings, which distance has magnified and time perpetuated, but which only require closer commercial union and more frequent international exchange of courtesies to weaken and ultimately eradicate. At the change of courtesies to weaken and ultimately eradicate. At the very crisis of events, and when not only was the Western hemisphere slowly recruiting from the throes and convulsions of the direct calamity which can befal a nation—a civil war—but the Mother Country was suffering from the injurious effects of the fraticidal contest of her offspring, the scientific and enterprising sons of both nations combined their energies in the grand and glorious enterprise which has resulted in bringing England and America into closer intelligence with each other than were any two integral portions of Great Britain a quarter of a centry ago.

who can, therefore, now predict the ultimate beneficial results to the cause of civilisation by thus bringing within a few minutes' intercourse two grand sections of the great human family, both springtercourse two grand sections of the great human family, both spring-ing from the same parent stock, speaking one common language, and possessing a community of sentiment upon matters of the most vital importance to the well-being of the humanity at large? Especially will the beneficial effects be perceived when the necessity arises for instantaneous combined efforts, such as have frequently occurred in

instantaneous combined efforts, such as have frequently occurred in the experience of many now living.

The population of Newfoundland is 140,000; of these the greater portion of the males pursue the hazardous occupation of fishermen, whilst the women assist in mending the nets, and take an active part is consider the fish and otherwise propaging it for any forwarding to whilst the women assist in mending the nets, and take an active part in curing the fish and otherwise preparing it for and forwarding to market. From their occupation, which compels them to buffet with wind and water at all periods, when the latter is not frozen over, and to brave the most inclement weather, the men acquire a degree of hardihood, which renders them most desirable volunteers to our naval service. Hitherto, as I have already premised, this island has been looked upon as little better than a mere nursery for the British Navy. The day, however, has now arrived when, by the development of The day, however, has now arrived when, by the development of other industrial resources, especially the vast mineral hordes, hidden as they are in this district by the merest crust, other and more conemployment will be promoted for those whose sympathies are ot bent upon a seafaring life.

The fisheries are, perhaps, the most extensive and prolific in the nown world. Of late, however, other sources of labour have been known world. opened out; of these, the various mines of lead and copper, building materials, and coal are beginning to form staple means of employment. The celebrated lead mine of Placentia Bay (La Manche), one of the richest and most extensive deposits extant, finds employ-ment for a great number of hands, who are thrown out of work when the long winters set in, and their ordinary occupation of fishing is

the long winters set in, and their ordinary occupation of fishing is stopped by the ice.

Of the fish which frequents the various sea-boards of Newfoundland, the principal is a fine and highly-prized description of cod, which is cured on the spot, and shipped in great abundance to England, France, and other parts of Europe, the United States, and the West Indies. Salmon and trout of a very superior quality are abundant. The coasts are also frequented by whales and sharks, but hitherto no established system obtains for securing the former of these menuters of the deep.

these monsters of the deep.

Besides the hardy race I have endeavoured to describe, a large mercantile population has recently sprung up, whose business pursuits induce them to congregate principally at the western extremity of the island, in the town of St. John's.

En passant. I have often had occasion to remark, what has doubtless arrested the attention of many of your readers as an extraordi-

En passant. I have often had occasion to remark, what has doubt-less arrested the attention of many of your readers as an extraordi-nary fact—that there is scarcely a city or large town throughout the whole of Europe, nor can an exception be taken to the rule in the United States, where the west end does not become the favourite re-sort of wealth and fashion. It would appear as if in this movement there was something more than chance or accident; otherwise, why should the principle obtain so universally and so closely follow the example of the diffusion of civilisation and Christianity, neither of

example of the diffusion of civilisation and Christianity, neither of which have deviated from the same track, and of the sun which continues to move in the same course—from east to west?

After the fisheries, the most important pursuit of the inhabitants of Newfoundland is the beaver hunting. Time and space will not permit of an extended description of the habits of these interesting little animals. Suffice it to say, they abound on the island, and afford a fund of amusement, as well as profit, to the hunters. They are eaught in large abundance, and are much prized, both as an article of excellent food and a means of great profit from the value attached to their skins. The ermine is also indigenous to the island, but, strange to say, though their skins are so much sought after in Europe, they are not considered worth the trouble of the islanders to systemise the search after them.

In the centre of the island abundance of food is found for the deer

In the centre of the island abundance of food is found for the deep

In the centre of the island abundance of food is found for the deer amongst the luxuriant herbage of the savannahs; hitherto, however, the interior has been very little explored, and the chase after these animals is reserved to future enterprise. Wolves, bears, foxes, grouse, curlews, and geese, afford excellent opportunities to test the dexterity of the adventurous sportsman. Of the natives few remain; these consist of the tractable and friendly Micmacks, who frequent the sea-shores, and mix frequently with the white population.

The surface of the country near the various shores is in general much broken up by ravines and precipices. More into the interior low woods and dense brushwood flank the vast rolling plains or savannahs, while the countless lakes relieve the eye, and impart beauty and freshness to a scenery that would otherwise prove sterile and uninteresting from its sameness. In no case do the mountains obtain any high altitude, the range being from 1100 to 1200 feet, though from being detached, rather than continuous, they give the impression of being much higher. To the north and north-west the woods become more dense, and in some places they acquire an unusual growth. The trees found most abundant on the island are the spruce, which predominates, birch, and larch. Neither beech, ash, oak, or maple, though indigenous to North America, have been discovered in Newfendland. maple, though indigenous to North America, have been discovered in Newfoundland. At and near the sea-coast all the timber is of a stunted character, but it serves admirably the purpose to which it is applied, that of building the boats which are peculiar to the islanders HARRY THOMAS VERRAN, M.E.

ALGERIA-No. V.

SIR,—Having described something of the character of the Atlas Mountains, it is as well to say, that if it were necessary to make a railway to the Great Desert, there is a pass at Batna, about 30 miles to the south of Constantine, that affords an easy route by which to accomplish it. At Lambessa, about 3 miles from Batna, there is an amphitheatre and some other buildings, with inscriptions on them and statues just as fresh, and in as good repair, as when they were left many centuries ago by the Romans. It seems a peculiarity of the limestone and the climate of this delightful country that the inscriptions and sculpture scarcely oxydise at all; the land being also rich in these remains, its ancient history is partially written almost scriptions and sculpture scarcely oxydise at all; the land being also rich in these remains, its ancient history is partially written almost everywhere upon its face. Batna and Lambessa are on the northern foot of the mountains, Biskara is on the south; it is one of the towns where those wonderful caravans, with their troops of camels, are marshalled for traversing the Great Desert. The diaries of these journeys it is most interesting to read, and I have sometimes thought whether it would not be possible to carry water in pipes by these routes through the sands, in order to make them practicable for other animals than camels. At Biskara, on the southern foot of the Atlas, the mountains are broken into deep ravines; the country is well watered, there are large saline lakes, and the physical aspect of the landscape (all except the sand) is very similar to the north. The climate, which loses its tropical character on the large wide high-level plateaus of Ainbaida, where they cease to grow the citron and the orange, here at Biskara, on the south side, assumes its tropical conditions, and the date flourishes in such abundance, and is cutivated with such care, and to such an extent, that it is carried down to the sea coast at Stora, Philipville, and Djidjile, and exported in great quantities to various parts of the world—the pass through the mountains from Batna to Biskara is a distance of about 12 miles. At Lambessa the Arabs seem to have forgotten their normadic habits; they reside in house, with well cultivated or another proceeding of exceptables and the very set the search of the world—the pass through they reside in house, with well cultivated or another proceeding of exceptables and the very set and the search of the world—the pass through they reside in house, with well cultivated or deapers of exceptables and the care and the car At Lambessa the Arabs seem to have forgotten their nomadic habits; they reside in houses, with well cultivated gardens of vegetables and flowers; they emulate the customs of Europeans, and, though dark are comely, courteous, and fond of society. The climate of the whole flowers; they emulate the customs of Europeans, and, though dark are comely, courteous, and fond of society. The climate of the whole country from the sea to the Desert, a distance of about 140 miles, is exceedingly pleasant, except when the hot winds from the Desert prevail. At the seaside is is usually tempered by the sea breeze: at some distance from the sea the atmosphere is cooled by the elevation of the ground, and during the time that I remained in the country, from the end of February until the beginning of July, I could well bear the same clothing that I wore in England.

I have hinted from time to time that the country is prolific in the germs of prosperity. I have alluded to the large heaps of wool and

germs of prosperity. I have alluded to the large heaps of wool and grain existing in other towns along the north side of the mountains; the roads are positively crowded with teams of large powerful mules. splendid symmetrical, moderately agile Arab horses, and good small oxen, all drawing off the produce of the country. Besides this traffic immense bodies of sheep are driven to the sea for export to Marseilles In the vessel in which I crossed the Mediterranean on my way home there were 1000 tons of iron ore, 1250 sheep, and a large number of cattle for France. Cork grows to a considerable thickness upon the trees; but eventually I shall go into these matters in detail, my object at present being to show the necessity and value of the railway now making to Constantine, evidently fostered, if not entirely made, by the Government. It is easy to imagine that the great traffic on these roads, and which has continued, more or less, for 2000 years, having roads, and which has continued, more or less, for 2000 years, having to ascend and descend hills of more than 1000 ft. high has always been a cause of impoverishment to the country. It is quite evident that those sort of hills require twice the number of draught horses that would be wanted on comparatively level ground; and these, to some extent, are the locusts that eat up the land, rendering competition with the markets of other countries difficult. Seeing this state of things, the French Government have instituted a line of railway from Philipville to Constantine. There are three somewhat extensive tunnels upon this line, one running under the town from the har bour up to the main level, at the commencement; another about half way under the great mountain of El Cantura, and the third at the terminus at Constantine. These tunnels were rendered necessary by the peculiar and extraordinary outline of the surface running be tween the sea and Constantine, up to 5000 feet high, and ending in Constantine 3000 ft, above the level of the sea. Down these roads Down these roads. which in about two years more will lose their principal traffic for ever,

have been carried the corn that 20 centuries ago used to supply 0id Rome, and up these roads the marble from the quarries of Filfila, that then adorned the magnificent buildings of the country, and enrich them even down to our own times. What a magic change will this create in the columns of trade! What an alteration will it effect in the coming generation of Algeria! But still, in order to carry the road home to the great sources of traffic, there must be a line made from Constantine to Ain Baida, with a branch to Batna; and, according to my judgment, there is not a railway in the world that will ing to my judgment, there is not a railway in the world that will pay better or effect more good than that from Philipville through Constantine to Ain Baida on the left, and Batna on the right hand. Philville, on the sea, stands on the site of an immense Roman city. The harbour now building will occupy about four square miles of water. It will take a long time to finish, but it will be a wonderful acquisition. The accommodation of Philipville is very good. The Hotel d'Orient and the Hotel de France are excellent hostelries, where the traveller will fare as well as in France or England. The poputhe traveller will fare as well as in France or England. The population is now about 10,000, and the people industrious and frugal. I will on a future occasion refer to the matter of the marble quarries, COPPER MINER. the cork, oak, the mines, &c.

MINING IN ALGERIA.

SIR,—As one of your constant readers and subscribers, I pay a good SIR,—As one of your constant readers and subscribers, I pay a good deal of attention to all communications included in your valuable Journal. I notice, some weeks since, letters from one of your correspondents in Algeria, who signs himself "Copper Miner." If the writer, who seems to be an intelligent and energetic traveller, is visiting the frontier of Sahara merely to find valuable copper lodes, I can give him good advice, and save him and his friends a good deal of money. However rich the lodes may appear, it is now, and will be for many years, a very wrong plan to adventure money in Algerian mines, so far from the sea shore region, in places where you have no easy and cheap conveyance, no population, no protection for the works. Algeria, no doubt, is one of the richest countries in mines of the old world; but, in order to make successful investments, the places must be properly selected, and the working scientific and practical at once. As those principles have very seldom, till now, ruled Algerian undertakings, there has been a good deal of money lost. I suppose that if English copper miners do go to Algeria, and no other country is worth while in the same degree the attention of English capitalists, it is not to follow our wrong steps.

country is worth while in the same degree the attention of English capitalists, it is not to follow our wrong steps.

The personal interest I have in one of the richest copper mines in Algeria, in one of the best situations, quite near the sea, may, perhaps, deceive me. But, in any case, if "Copper Miner" is anxious to see promising lodes of yellow and grey copper, I will introduce him to a place where he will not meet the company of lions and eagles, like in his tour at the boundary of Sahara, but where he will find, when wanted, plenty of workmen, a quiet population of Europeans and Arabs, and a safe port just at the distance of a nice walk from the mines. The expenses of carrying the ore from the mine to the sea are not higher than the cost of cartage between London-bridge. sea are not higher than the cost of cartage between London-bridge

and Euston Station.

Should this communication prove of interest to your Algerian "Copper Miner," or to any other of your correspondents, I will readily enter more fully into communication on learning the same through the Journal.—Paris, Dec. 5.

T. C.

PROSPECTS IN THE CARADON AND CAMBORNE DISTRICTS.

PROSPECTS IN THE CARADON AND CAMBORNE DISTRICTS.

SIR,—It is with more than ordinary pleasure I again refer to this subject, as it will be in the recollection of those who read my letters that in reference to WEST CARADON I stated I had every reason to believe that shallow productive bunches of one would be found to exist in the unexplored ground. Within the last fortnight this has, to some extent, been verified by the cutting a few feet below surface of what is supposed to be Clymo's lode, so rich in the adjoining mine, South Caradon. It shows a gossan not to be equalled in the whole of this great district; indeed, such an one has never yet failed on development to produce large quantities of copper, The "shoding" still continues in search of the other lodes known to exist in this ground, which, when laid open, a shaft will be sunk in the centre of such a group of productive lodes as cannot be surpassed in the county; it is, thereforefore, with every confidence I recommend the mine to investors, fully believing that in a few months shares will be at more than double their poesent quotation.

WHEAL AGAR.—Within the last month the East Pool rich lode has been cut in the 190, and, on being driven through, proves to be 11 ft. wide, worth at present 400, per fm. This is a discovery of great importance, as the rich tin mines of Dolocath, Carn Brea, and Tincroft, in the same vicinity, made all their riches under similar circumstances. The upper workings are in killas, and immediately the lodes enter the granite they become rich for tin. This is another such instance, and I believe they are on the topod one of those great deposits for which this district has long been famed. It is, moreover, a lode of no ordinary size, and in such cases, when these masterly lodes strike into mineral they turn out large masses. There has been about 40,000. called up on this mine, and from all appearances the object is now being attained. I, therefore, look forward to a great rise in the price of these shares, which is fully warranted b

PRINCESS OF WALES SLATE COMPANY.

CALDBECK FELLS (CONSOLIDATED) LEAD AND COPPER MINING COMPANY.

SIR.—I notice in last week's Journal a letter from Sir Robert Briscoe, Bart-the Chairman of this company, in which he states that "from past experience he feels it his duty to warn the shareholders not to be deceived into removing the management back to London, for, unless they court ruin, it is necessary by

the feels it his duty to warn the shareholders not to be deceived into removing the management back to London, for, unless they court ruin, it is necessary to the management back to London, for, unless they court ruin, it is necessary to have directors upon the spot, who can easily and at any time when required visit the mine, and have the captains before them." As a shareholder ignorant of the cause of the existing differences, the above statement—however true—appears to gene to contain an extraordinary anomaly. Here is the Chairman (who has complete the position from the commencement of the company)—a gentleman et local residents of position and influence—suggesting a course which the shareholders had a right to suppose had been adopted from the outset, the fact being that the local directors received their remuneration for that specified object.

It is idle for the "local" Chairman now to turn round and complain of wasteful expenditure." for if ever the efficiency of "local directors" could be of practical utility it certainly is when the mine is being laid out; and, therefore, if "wasteful expenditure" has been incurred none can be more blame worthy than the "local directors," who—to repeat the words of the local Chairman—"can easily and at any time when required visit the mine, and have the captains before them." For what purpose other than this have the shareholders paid the directors, including the "locals," an annual stipend of 6601. Y while it am not at all questioning the beneficial influence of local directors, and especially when they perform the duties for which they are liberally paid, yet if we, as shareholders in this company, base our opinion upon what our worthy Chairman pleases to call "past experience," It obviously cannot be in favour of the local gentlemen.

That the shareholders possess a valuable property, capable when further developed or returning something like 200 tons of lead ore per month, is admitted on all hands, while its extent is far greater than can admit of development by th

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economic development of a property which, it is quite within the range of probability, may in a short time successfully vie with its kindred mine—Great Laxey. Bec.~3.

THE SOUTH CORNWALL MINING COMPANY.

THE SOUTH CORNWALL MINING COSITANY.

SIR,—I have been lately informed that a pamphlet containing an account of Mr. Erwin Harvey Wadge's Testimonial Dinner, speeches, &c., is being circulated in the island of Gurnsey at the present time. In that pamphlet is an extract from a letter of mine, which extract was published without my leave being asked for, or given. That extract was written when Harvey's "Mining Circular," of Manchester, quoted the shares of the South Cornwall Company (of which company 1 am a shareholder, and Mr. E. H. Wadge is chairman) at 2sl. premium. I then thought that I had made a good investment of my money, but I was miserably disappointed; as a Committee of Investigation is at the present moment, only a few months from the time of my writing the letter, recommending the winding-up of the company.

Custle From Rectory, Bromyard, Herefordshire, Dec. 1.

WHEAL TREVENNA MINING COMPANY.

Castle From Rectory, Bromyard, Herefordshire, Dec. 1.

WHEAL TREVENNA MINING COMPANY.

Sir.—I am desired by the directors to reply to the remarks of "A Shareholder" in the Journal of Dec. 1. His statement is correct as to the amount called up and tin soid, but the general opinion of the members is that to return 2000. worth of tin in so short a time from a young mine is highly creditable. It has been explained before that the mine is being developed much more extensively than was intended at the time it was introduced by the promoters, and after payment of their purchase money and heavy preliminary expenses there would, with 6l. only paid, be but little left wherewith to work an extensive mining property. The copper lode has been opened on, and a long level of about 100 fms. cleared to the shaft; but the same difficulty has met us here as in following down the tin lode. The unusual quantity of rain this season has caused the water to rise rapidly, and to a greater extent than could have been anticipated, preventing the miners from working on the lodes. Hand pumps were tried, but the power was quite insufficient to keep the water. There remained no alternative but to have the proper machinery, as in use on all mines, when working under the water level of the country—to keep the levels and shafts free from water, it was, therefore, decided to carry down a new engine-shaft to a depth of 30 fms., then drive off a short cross-cut from there to intersect the lode at about 36 to 40 fms. on its underlie from surface, the pumping to be worked by means of a powerful water-wheel of 40 ft. diameter and 6½ ft. breast connected to the bob by a long run of fist-rods. We succeeded in getting down this shaft properly timbered, cased, divided down, with a footway on for the men 20 fms. When the unusual heavy showers we have, as well as Manchester, been subjected to caused a great increase of the land waters rising in the shaft, preventing all jurcher shaft.

As we could not afford to let the shaft remain idle whilst the wheel an

FRONTINO AND BOLIVIAN (SOUTH AMERICAN)

FRONTINO AND BOLIVIAN (SOUTH AMERICAN)

MINING COMPANY.

Sin.—The shareholders have received a circular letter from the directors, stating that the secretary has been dismissed, and that Mr. G. L. Phillips has been appointed managing director. As the shareholders are not informed of the reason why this important step has been considered necessary, they are left to infer that it is owing either to pecuniary irregularities or a general inattention to the duties of the office. If the former be the assigned cause, to whom ought the shareholders to look for protection but to the directors, who are supposed to be the shareholders trustees? It is a fact not generally known to the shareholders that this board of directors receive for their remuneration no less than lood, per amoun, which is something like 2001, per director—a very comfortable houter from the And what do shareholders suppose these 10001. a-year directors paid the late secretary (upon whom, of course, devolved all actual work) for his services, including office rent (no small item in fresham House), clerks, &c.? Why, the total sum of 3501, the whole of which must have been absorbed in rent and clerk's salaries. It, of course, remains to be seen whether the directors, in the present condition of the company, have continued to take their remuneration, although it is to be hoped, for the sake of their directorial reputation, they have declined to do so; but, if otherwise, it becomes a question for the shareholders whether, having paid their executive so lavishly, they have not, at least, an equitable claim upon the directors, who, by their lacks, have permitted irregularities on the part of the secretary. The least the shareholders have a right to expect from the directors at the next general meeting is that they will resign their scats, when, if the explanations they can offer are deemed to be satisfactory, the shareholders will have power of re-electing them.

For my part, and I have been connected with many mining companies, I can see no possible advanta

[ADVERTISEMENT.]

From Messes, Ward and Jackman:—Any attempt to afford reliable information in the shape of facts must be useful, and tend to make British mines take a better position among the investments of the day. Our object has been, and is, to point out the number of sound and legitimate undertakings in this department of industry that exist in the United Kingdom, in order that the public may take correct views of such, and with this purpose we have spared no expense in having the mines inspected in several instances before bringing them before our friends; and, having perfect reliance in our agents, we boildly state that the information we publish may be depended on as facts, being derived from indubitable authority. From the present position and prospects of some of the more advanced progressive mines, which are now selling at a very low price, those who now make a selection will, undoubtedly, find their investments greatly increased in value during the coming year, and when, it is to be hoped, copper and tin will also advance. We have always noticed that after a period of depression in the market comes excitement, and vice versa. We are now passing through one of depression, and which, we maintain, will not last long, and no such favourable opportunity may occur again for capitalists to invest in mines as the present. We refer our friends to our previous remarks in the Mining Journal respecting the following mines, all of which we believe, should now be bought:—Agar, Chiverton, Chiverton Moor, Ciliford, Cooke's Kitchen, Caradon Consols, East Baset, East Caradon, East Lovell, Great Vor, Grambier, Great South Tolgus, New Seton, North Treskerby, North Crofty, New Tamar, Prosper United, South Basset, South Grenville, West Frances, West Caradon, and Wheal Buller. Respecting some of the above mines, our correspondents write us this week as follows:—At North Treskerby, North Crofty, New Tamar, Prosper United, South Basset, South Grenville, West Frances, West Caradon, and Wheal Buller. Respecting some of the above mines, our co From Messrs, WARD and JACKMAN: -Any attempt to afford reliable

proved during the past week, both in character and value; it is now worth rully so with soliver-lead ore per fathom, with every appearance of improving the solid to the effect that it has been shown to their satisfaction that the company cannot, by reason of its liabilities, continue its business, and the the company cannot, by reason of its liabilities, continue its business, and the the employees a resolution, to the effect that it has been shown to their satisfaction that the company cannot, by reason of its liabilities, continue its business, and that the company cannot, by reason of its liabilities, continue its business, and the the cancel of the company cannot, by reason of its liabilities, continue its business, and that the company cannot, by reason of its liabilities, continue its business, and that the company cannot, by reason of its liabilities, continue its business, and that the company cannot, by reason of its liabilities, continue its business, and that the company cannot, by reason of its liabilities, continue its business, and that the company cannot, by reason of its liabilities, continue its business, and that the decompany cannot, by reason of its liabilities, continue its business, and that the company cannot, by reason of its liabilities, continue its business, and that the company cannot, by reason of its liabilities, continue its business, and that the company cannot, by reason of its liabilities, continue its business, and that the company cannot, by reason of its liabilities, continue its business, and that the company cannot, by reason of its liabilities, continue its business, and that the company cannot, by reason of its liabilities, continue its business, and that the decompany cannot, by reason of its liabilities, continue its business, and that the company cannot, by reason of its liabilities, continue its business, and that the company cannot, by reason of its liabilities, continue its business, and that the company cannot, by reason of its liabilities, continue its business,

entlemen prepared to assist Mr. James, held at Messrs. Greenwood's, Can-street, it was resolved to open an account for his benefit at the London and ity Bank, and Mr. Lyon was appointed treasurer.

The following are the Government Returns of the export of article The following are the Government Returns of the export of articles identified with mining, the produce and manufacture of Great Britain, for the ten months ending Oct. 31, 1866; and also as compared with the ten months ending Oct. 31, 1865; extracted from the "Account relating to Trade and Navigation," published by the Board of Trade:

DECLARED VALUE FOR THE TEN MONTHS ENDING OCTOBER 31.

1866.	Increase.
4,317,354	£ 611.483
3,712,402	166,057
-,,	,
3,938,137	-
1,967,893	
1,943,729	2,420,768
923,115	330,554
2,259,189	direction.
182,924	Trappe .
782,538	162,183
315,748	-
1,644,313	414,228
113,210	44,928
	1,644,313

The following are the Government Returns of the Imports and Ex-The following are the Government neutrans of the imports and Exports of Gold and Silver Bullion and Specie for ten months ending Oct. 31, 1866, from and to the undermentioned places, showing the respective results in favour of and against this country; extracted from the "Accounts relating to Trade and Navigation," published by the Board of Trade:—

DECLARED VALUE FOR THE TEN MONTHS ENDING OCTOBER 31, 1866.

EXPORTS OVER IMPORTS OVER

Tradition Value				E	xports over	· Im	ports over
	Imports.		Exports.		imports.		exports.
Australia	£5,624,277		£ 40,810		-		£5,583,467
Belgium	198,808		1,123,984		£ 925,176		-
British South Africa	10,552		4,867		********		5,685
British Columbia			-		Miller		
British North America.			110,280				46,665
Brazil			939,757		649,800		-
Egypt			2,897,438		2,765,680		100pe
France			10,256,367		5,411,678		
Gibraltar			3,370		-		
Hanse Towns	1,317,824		1,232,010	****			85,814
Holland	112,784		847,684		734,900		
Malta	40,176		*****		*******		
Mexico, &c	5,055,668		866,332		01000		
Portugal, &c	585,006		108,234		47-50		
Russia	159,048		8,597				150,451
Spain	26,031		155,083		129,052		
Turkey	99,619		-		Wilder		
United States							
West Africa	115,727				Section		65,128
"Other countries"	1,974,986		806,546	****	-		1,168,440
Total	£30,304,378	:	£19,967,028		£10,616,287		£20,953,637

ST. JOHN DEL REY MINING COMPANY.

The half-yearly meeting of proprietors is convened for Wednesday next, and for presentation thereat the directors' report, of which the subjoined is an abstract, has been prepared:—

The monthly produce of gold from March 23 to Sept. 21, both days inclusive, was 314,562 oits.; the produce for the six months immediately preceding was 301,970 oits.; for the corresponding period of 1865 it was 220,149 oits.; whilst the largest produce ever previously obtained during six months, being for the half-year ending March, 1862, was 285,572 oits.

The nett profit on the working of the mines for the past half-year has been.

Adding thereto the amount received, and to be received, for interest on moneys unemployed.

And the balance of undivided profits carried for 743 11 4 And deducting the London expenses

THE SOUTH CORNWALL MINING COMPANY.

An extraordinary general meeting of shareholders was held at the Guildhall Coffee House, on Thursday,—Mr. WILLIAMS in the chair.

Mr. C. WARWICK (acting secretary) read the notice, which stated that "The purpose for which such extraordinary general meeting is to be held is to enable the said company to pass an extraordinary general to the effect that it has been shown to their satisfaction. resolution, to the effect that it has been shown to their satisfaction

permission now to explain why the present meeting had been called, because, under ordinary circumstances, a committee would wait until the adjourned meeting had taken place. The circumstances, however, being most peculiar and exceptional would, he was sure, convince overyone the committee had taken the right course. That the observations he had to make might be thoroughly comprehended, he thought it would be convenient to now formally read the report of the committee, although it properly belonged to the adjourned meeting. (The report—which is too lengthy for publication—detailed the history of the company. It stated that Capt. Thomas's report upon the Carthew and Cleer's Hill Mines was not among the papers, the only document relating thereto being what appeared a copy of something relating to those mines; but the original report of Capt. Thomas was not forthcoming. Irrespective of the financial difficulties of the company, the committee saw no prospect of its successful an advantage of the company appears of the company appears of the contents. The indebtedness of the company appear be tell answerable for its contents. The indebtedness of the company appear be tell answerable for its contents. The indebtedness of the company appear be tell answerable for its contents. The indebtedness of the company appear be tell answerable for its contents. The indebtedness of the company appear he company appears to the company appear to the company appear of the company appears to the company appear of the company appears to the state that, looking to what took place at the last meeting, the remaining the company appears to the first of the state that, looking to what took place at the last meeting, as the held in his hand their resignation, which would enable the shareholders within one week from this time to consider their position as vacated—their resignation, which would enable the shareholders within one week from this time to consider their position as vacated—their resignation was their own voluntary act, and was pa

MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

[EXTRACTS FROM OUR CORRESPONDENCE.]

PROSPER UNITED.—These mines continue to look very well. They are making a fair profit, even at the present prices of tin and copper. They may be considered the best mines in Cornwall at the present time.

CALDBECK FELLS CONSOLIDATED LEAD AND COPPER MINING COMPANY.—As a sharholder largely interested in the success of this company, Mr. Richard Davis has addressed his co-proprietors upon a subject of great importance respecting the future welfare of the undertaking. Mr. Davis states that the local directors, who appear never to have worked in harmony with their London colleagues, at a meeting held at the registered offices in London, and in the absence of nearly all the London directors, passed a resolution, and in the absence of nearly all the London directors, passed a resolution calling a meeting of shareholders to be held at Wigton, on Nov. 21, the object of which was self-evident. At that meeting the directors, having secured an absolute majority for themselves, passed certain resolutions, the purport of which has already been published in the Journal. Mr. Davis further states that he has submitted to his legal advisor a copy of the notice convening the meeting, as also of the resolutions agreed to; and his opinion thereon is that the meeting having been convened for the originary business, and afterwards to be made special for the purpose of forfeiting shares upon which calls remain unpaid, no other business could be legally transacted.

New TAMAR SILVER-LEAD MINE.—It is not often that within about a month from the starting of a young mine a sale of ore takes place, but work is likely to be the case at the tentre are the case at the law in the means the processor.

special for the purpose of forfeiting shares upon which calls remain unpaid, no other business could be legally transacted.

NEW TAMAR SILVER-LEAD MINE.—It is not often that within about a month from the starting of a young mine a sale of ore takes place, but such is likely to be the case at this mine, as the agent reports that "a nice pared of first-rate ore will soon be ready for the market."

BRYNPOSTIG MINE.—This promising young mine is situate about two miles from the town of Llanidioes, in Montgomeryshire. The prospects are unusually good, as will be seen by report in another column. The deepest level is not more than 13 fins, below the adit, and has been driven through a course of ore 35 fms. in length, and the end still good. The ground is easier for working; cost of driving about \$61, and of stoping \$2\$, per fm.

EAST BOTTLE HILL, AND THE PLYMPTON DISTRICT.—Having been down in Cornwall this last few weeks, and on my way back to London, I visited the Wheal Mary Hutchins, Bottle Hill, and East Bottle Hill Mines. My first attention was called to the former mine. There they have a splendid lode of rich tin only a few fathoms from surface, going into a hill, which will leave backs from 60 fms. to 70 fms.; a great many tons of rich th has been sold, and a large quantity of rich tin now at surface waiting the completion of a large water-wheel for stamping the tin. Then to Bottle Hill. There I find they have a rich copper lode, discovered only about 10 fathoms deep, and producing copper one worth 104, per ton; there are many tons of rich the now on the floors ready for market; this lode runs through the sets upwards of half-a-mile, and will leave backs from 65 ms. deep, and, worked with the aid of pumping machinery, will entirely open up a new mine, which is of great importance. Thence to East Bottle Hill. There I find a high machinery, will entirely open up a new mine, which is of great importance. Thence to East Bottle Hill. There I found an immense burrow of rich tin ore; rocks of tin, from 3 to 4 cwts. In

COUGHS-ANOTHER TESTIMONIAL (THIS WEEK) TO DR. LOCOCK'S PULMONIC WAFERS.—Mr. Earwaker, Stationer, Alton, Hants, writes, Dec. 1, 1868.—"I hear many speak of their goodness." They give instant relief to asthma, consumption, coughs, and all disorders of the breath and lungs. All throat affections are immediately relieved by allowing one occasionally to dissolve in the mouth. To singers and public speakers they are invaluable for clearing and strengthening the voice. They have a pleasant taste. Price 1s. 1½d., 2s. 9d., 4s. 6d., and 1ls. per box. Sold by all druggists.

1s. 1½d., 2s. 9d., 4s. 6d., and 1ls. per box. Sold by all druggists.

Holloway's Ointment and Pills.—Winter coughs are alike dis
tressing to the patient and annoying to those around him. The mode of cure is
simple, innocent, and effective. Holloway's ointment should be thoroughly
rubbed upon the front of the cheet and between the blade bones twice a day,
while the blood is undergoing purification by appropriate doses of his pills.
A double result is thus secured—the air tubes are relieved of accumulated phiegm,
and the lungs are freed from an impure circulation. These favouring conditions
remove the cause, and the cough ceases. By the same means, and with equal
facility, the treatment by Holloway's inestimable remedies will overcome ulcerrated and sore throats, dipheria, bronchitis, pleurisy, and all asthmatical and
pulmonary congestive com, laints.

SHAREHOLDERS IN PUBLIC COMPANIES desirous of avoiding calls and further responsibility will find purchasers on applying to Mesers. BARRETT AND CO., 78, LOMBARD STREET, CITY, and No. 20, SPRING GARDENS, CHARING CROSS. Stocks, shares, mining, and other miscellaneous scourities bought and sold. investment Review on application, Cash advances made.

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CAPT. RICH, BODMIN, CORNWALL, being in the centre of the mining districts of Devon and Cornwall, and having had 28 years' experience in the management and inspection of mines, OFFERS HIS SERVICES to INSPECT and REPORT on MINES in either of the above countles. Orders promptly attended to

Mining Correspondence.

BRITISH MINES.

EDFORD UNITED.—J. Phillips, Dec. 5: The two stopes in back of the 115 will produce 2 tons of ore per fm. each. The tode in the 103 west is about wide, unproductive. The three stopes in the back of this level are yielding same quantity of ore as last reported.—North Lode: Our progress in the enshaft is slow in consequence of the hardness of the ground. The lode in 5 west is 15 in. wide, composed of spar, mundle, and stones of ore; in this least the lode is small and unproductive. The lode in the 62 east is 18 in. by producing good stones of ore.

the same quantity of ore as last reported.—North Lode: Our progress in the engine-shaft is slow in consequence of the hardness of the ground. The lode in the 73 west is 15 in. wide, composed of spar, mundit, and stones of ore; in this level east the lode is small and unproductive. The lode in the 62 west is 15 in. wide, producing good stones of ore.

BEDOL-AUR.—I. R. Hardness of spar, mundit, and stones of ore; in this level east the lode is small and unproductive. The lode in the north end of the shaft is producing some stones of lead, but not enough to value. Jones's pitch is not looking quite so well, but still yielding more than 1 ton per fm. Mettall's pitch has improved a little, yielding about 1½ ton of lead per fm.

BOTTLE HILL.—J. Eddy, Dec. 8: South or Copper Lode: The lode in the 12, west of cross-cut, is about the same as to size and quality as when reported on last week; the ground here has now become case for the present poor for copper. The producing good work for tin. The ground in the 24, west of shaft, is still hard, and the lode small.—Main Lode: The price of tin being so low, we intend for the present stopping all costs on this lode we possibly can, and confine our selves to that ground which we consider will pay.

BRONFLOYD UNITED.—T. Kemp, Dec. 5: Settings or December: six men to sink a winze from the 32, on the north part of the lode, to carry it 21th by 6 six a winze from the 32, on the north part of the lode, to carry it 21th by 6 six and wing from the 15th of the lode, to carry it 21th by 6 six and and the lode to six men, at 35s. No change in the value of these bargains. We have communicated the new shaft with the rise from the 52, and the shaftmen have taken contract to complete the shaft to the 26 for 42f.

BRYNANTLLECH.—Win. Wasley, Dec. 6: The 5-th. lift in Lewi's shaft is working well, and I think from present appearances that we shall be able to shift a good many year fm. This week we have had a hard bed of elvan in the deep adit end, but I think it will soon wear out again, when

15s. in 1l. CONSOLS.—S. Bennetts, Dec. 4: We have not as yet met with any

d our progress very much. CARN DOCHAN (Gold).—J. Parry, Dec. 5: The lode in the drivage and shaft continues from 3 to 4 ft. wide, yielding quartz of the usual character spotted slightly with pyrites. The coffers have been cleared, and the stamps (13 heads) put in pretty goel condition for this month; by the end of the monta about half of them will be worn out. We start the stamps this afternoon. The total stamped in November month was 129 tons. We have a quantity of the blanker sand and coffer-stuff on hand. The machinery has not been working since Saturday. To day's gold from the Mosheimer's is loz. 7 dwts. CENTRAL MINERA.—Thos. Hughes, Dec. 6: Victoria Engine-shaft: Operations throughout the mine are progressing satisfactorily, and without alteration slace last report.

MAL MINERA.—Thos. Hugnes, Dec. 6: Victoria Engine-shaft: Operatoughout the mine are progressing satisfactorily, and without alteration treport.

RAL SNAILBEACH.—J. Kitto, Dec. 4: The lodge is completed at the he cross-cut driven about 3 fms. from shaft towards the south lode. The now actively engaged dividing and casing the shaft, fixing lift at the butting in ladder-road, &c., and will have all complete for bringing the state butting in ladder-road, &c., and will have all complete for bringing the state bottom in a week or ten days, when the driving of the cross-cut the sinking of the main engine-shaft will be immediately resumed. ERTON—J. Juleff, J. Borlase, Dec. 5: In the 100, west of Murray's shaft, is 2 ft. wide, worth 201, per fathom. The rise above the 100, west of shaft, is up 9 ft., where the lode is worth 201, per fathom. In the winze shaft, is down 3½ fathoms; lode worth fathom. Cookney's shaft is now as deep as the 100; here the lode is 30, per fathom. In the winze sinking below the 73, east of Murray's elode is worth 3 cwts, of silver-lead per fathom. In the rise above the deis 15 in. wide, worth 3 cwts, of silver-lead per fathom. In the rise above the in in the cross-cut north of Murray's shaft, in the 100 fm. level.

RTON MOOR.—J. Juleff, W. Bennetts, Dec. 5: The engine-shaft is fathoms below the 50; the men are now engaged cutting bearer-holes in composed of spar and peach. The rise above the 40, west of engine-shaft, the lode is 4 fathoms. In a good looking channel of ground. The 50, driving at-rod shaft, is worth 15 cwts. of silver-lead ore per fathom, with a proparance. In the 59, east of flat-rod shaft, the lode is a treesent disverse of silver-lead ore per fathom. The rise above the 50, east of flat-rod shaft, the lode is a treesent disverse shaft.

to look well.

CLARA UNITED.—J. Davis, Dec. 5: Settings: The 5 west to two men, at 180s. per fathom. A great change has taken place in the lode here; its underlie has changed from north to south, and its value for lead is now 12 cwts, per fm. I expect it will soon either form a junction with the branch worked in the winze from the 30 to the 40, or resume 1ts former bearing; the air is getting rather rare here, and I thought it advisable to reduce the number of men in it. The The stopes Nos. 1, 2, and 3, in back of this level, at 65s., 72s., and 7os. respectively. The winze (No. 2) under the 30, at 130s. This branch is continually improving, and it has now assumed the appearance of an independent lode, and is bounded on each side with a well-defined wall, when this winze is through we shall forthwith commence sinking a winze from the 40 to the 50, which will ventilate the 50, and facilitate the stoping of the winze in its back. The men in the engine-shaft are getting on well with their contract.

CROWAN AND WENDRON.—R. Reynolds, Dec. 5: Our operations are pro-

e engine-shaft are getting on well with their contract. CROWAN AND WENDRON.—R. Reynolds, Dec. 5: Our operations are progressing with all possible speed.

CUDDRA.—F. Puckey. Dec. 5: In the winze sinking below the 117, west of
CUDDRA.—F. Puckey. Dec. 5: In the winze sinking below the 117, west of
Walker's shaft, the lode is fully 10 ft. wide, and of a very promising character,
composed of quartz, peach, and tin, worth for the latter 40l. per fm. for that
width. The different stopes and every other part of the mine is without alterawidth. The different stopes and every other part of the mine is without altera-

our last week's report.

WHEAL FRANCES.—W. Ham. Dec. 6: The ground in the 50 cross
ourable for driving, and we have splendld spar and mundle, inte

ent is favourable for driving, and we have splendid spar and mundle, intermixed with the killas.

EAST CARADON.—J. Truscott. Dec. 5: Caunter Lode: The 100 east is worth one r st. per fm.; the 100 west, stones of ore; the 90 east, saving work.—South Lode: will all the 100 west, stones of ore; the 90 east, saving work.—South Lode: morth part, it.; and the 70 west, 6£, per fm.

EAST DAREEN.—Dec. 4: Taylor's Shaft: In the 104 east the lode is from 6 cut. Tr to 7 feet wide, yielding about 5 cwts. of lead ore per fm.; in the winze sinking under this level the lode is from 5 fo feet wide, producing 2 tons of lead ore per fm. In the drift west of winze, over this level, the lode is 1 yard wide, yielding it he was

THE MINING JOURNAL.

11½ (on of lead ore per fm.; in the stope over this level the lode is from 2 to 3 varias wide, producing 1½ (on of ore per fm. In the 22 east the lode is 3 ft. wide), any other wides, any other wides, any other wides, any other wides, and the lode is 1½ variable wides, one of the lode is 1½ variable wides, composed of a light clay. Wide, producing small bunches of ore, not to value. In the level west of cross-cut, 25 of ms., and of "Aylor's shaft, the lode is 1 yard wide, composed of a light clay." So fms., and of "Aylor's shaft, the lode is 1 yard wide, composed of a light clay. The lode is 1 yard wide, one of a light clay. The composition of the lode is 1 ft. wide, one of the lode is 1 ft. wide, of the six of the lode is 1 ft. wide, one of the lode is 1 ft.

NORTH LAXEY .- R. Rowe, Dec. 4: The lode in shaft sinking below he 82 continues about the same as last reported—3ft. wide, and worth 2 tons of ad per fm. We have also tapped a fresh feed of water in the bottom, strongly adjecting open ground below, and with it almost invariably follows an im-roved lode of ore, and which I hope shortly to be able to report. No change in a cother parts of the mise.

proved lode of ore, and which I hope shortly to be able to report. No change in the other parts of the mine.

GREAT RETALLACK.—G. R. Odgers, Dec. 5: We have taken out the engine, and the masons are getting on as well as they can with the building of the new house. We have no change to report in any of the underground operations since my last. I am thinking that we ought to open a little further south on the Trebellan lode, and which I propose to do next month; the ground, so far as opened, is favourable for silver-lead, and it can be done cheapily.

GREAT SOUTH CHIVERTON.—J. Nancarrow, J. George, Nov. 30: Gifford's shaftmen are getting on with the new lift, and we expect to be in full course of sinking by next Monday. The lode both in the 20 fm. level east and west has a most promising appearance for lead, and looks as if we should have an improvement shortly.

ment shortly.

GREAT SOUTH TOLGUS.—J. Daw, Dec. 5: In Noel's shaft, sinking below
the 12s, the lode has a little improved in the past week, but all the other point

the 125, the lode has a little improved in the past week, but all the other points continue the same as when last reported.

GREAT WHEAL BADDERN.—R. Pryor, H. Tregoning, Dec. 1: The 75 crossent, south of Hill Brothers engine-shaft, is still driving in the civan course, which appears to be very large and extensive; the ground is much the same as for some time past, and the water increasing. In the 75 end, on the lead lode, driving west towards the old mine, the lode is 16 in, wide, containing mundle, flookan, spar, and spots of silver-lead; the ground is without change to notice during the past week.

during the past week.

GWYDYR PARK.—W. Smyth, Dec, 4: The lode in Gwyn Llifion adit north
is about 2tt. wide, of spar, mundle, blende, and spots of lead ore, and letting
out water. The lode in the end driving west is still small and disordered, but
the water is increasing.

HARWOOD.—J. Race, Dec, 2: At our setting oil Monday the level going east
in north string was set together with No. 1 stops to two men, at 60s, per fm.:

HARWOOD.—J. Race, Dec. 2: At our setting on Monday the level going case in north string was set together with No. 1 stope to two men, at 60s. per fm.; this stope is poor at present. No. 2 stope is set to two men, at 60s. per fathom, worth 15 no of ore per jm. No. 3 stope is set to two men, at 60s. per fathom, worth 15 ton of ore per fm. The level going east in the vein is set to four men, at 45s. per fm.; this is poor at present, but I think we shall have a change for the better shortly. I will put two men toopen out the old level to Trough on Monday. The workall comes out now by the horse level to the new dressing-floors.

HINGSTON DOWN CONSOLS.—T. Richards, Dec. 5: The 140, east of Balley's engine-shat, is worth 25t, per fm. The stopes in back and bottom of the 130 west are worth 60t, per fm. The 120 west is worth 15t, per fm. The stope in back and bottom of the 120 east and west are worth on the average 25t, per fm.

LADY BERTHA.—J. Methreell, S. Harpur, Dec. 6: The 4t, driving east, is a little improved, carrying a leader on the north part of the lode, 6 in. wide, good work, and has every indication of further improving. There has been no lode taken down in the 30, driving east, since last reported. We sampled on Friday last (computed) 27 tons—No. 1, 2 tons; No. 2, 5 tons. The water is very quick in the mine.

ast (compliced) 27 tons—No. 1, 22 cons; No. 2, 5 tons. The water is very quick in the mine.

LOVELL CONSOLS.—Wm. Chappell, Dec. 5; We set the 12 fm. level end to rive west on the course of the lode, and the cross-cut to drive north in the same evel, to get under the perpendicular shaft sunk down within 4 fathoms of that twel. After the cross-cut is driven under the perpendicular shaft we shall at nee rise so as to hole to the bottom of the shaft, and let down the water, which rill also thoroughly wentilate the mine, and enable us to continue the cross-cut orth to cut the Frevenen north lode, which is only 6 fms. north of perpendicular haft; at the same time, we shall be able to drive south from the same point to it Trevenen south lode, which is standing about 6 fms. south. When this is complished it will enable us to work on three lodes. Also clear the cross-cut buth at the adit level. We shall not be able to clear the cross-cut porth until th at the adit level. We shall not be able to clear the cross-cut north until water abates, but I have every reason to believe that from the appearances

of the lode in the 12 fm. level end driving west, and the two lodes standing north and south, when cut will lay open a good mine.

MINERA UNION.—W. T. Harris, Dec. 6: Douglas's Shaft: The ground consists of chert and spar of a favourable character, but spare for sinking; the water continues about the same. The ground in the 40 cross-cut indicates a change for the better for progress, and in about 4 yards I expect to cut the vein, Brabuer's Shaft: The ground in the 80 yard cross-cut, to the red vein, consists of black limestone and shale. Last night we cut a very large stream of water in the forebreast, which is encouraging. The clearing of the 60 yard level north makes good progress; in the stuff we find fine lumps of lead upwards of ½ cwt. The ground in the big cross-cut consists of limestone and spar, same as for some time past.—Williams's Shaft: The lode in the rise in back of the 40 yard level north is 1 ft. wide, very promising for lead. The pitches continue without alteration.

NEW CLIFFORD. — I Michael Dec. 6: Helland's confine shaft is more.

yard level north 18 1 it. where, very probabilists of the without alteration.

NEW CLIFFORD.—J. Michell, Dec. 6: Holland's engine-shaft is in regular course of sinking, and good progress is being made. There is no alteration to notice in the ground since my last report; it is very good for sinking in, and is still highly mineralised, with faces of yellow copper ore, which, no doubt, is leading to a rich copper lode. The engine and pitwork are in first-rate working order.

leadning to a rich copper look. The easien and pilwork are in first-rate weig.

IN SURPLES.

IN

driving by the side of the lode in the bottom level, was 16w days we have been lode is forming a fine wall, and from its appearance I think when the lode is taken down! twill be found to be productive. The machinery is in good order. ROSEWARNE CONSOLS.—J. Nancarrow, R. Knuckey, Dec. 4: In the 100, east of Ellen's, we have cut through the cross-course in the bottom of the end, and expect to get fairly into the kilias on the other side by the end of this week. The west stope above the 90 is worth 5t, per fm. The east stope above the 90 is worth 5t, per fm. The stope below the 80 east is worth 4t, per fm. We have commenced rising above the 80, west of sump, for ventilation, and have a very promising lode, 2ft. wide, which yields good stones of ore. There is in the 70, west of sump, a very good looking lode, yielding rich stones of mundic, and containing a little black ore. There is no alteration to report in the pitches since last week.

taining a little black ore. There is no alteration to report in the pitches since last week.

SOUTH CALLINGTON.—W. Spargo, Dec. 6: We have got through the vugh in the south adit, and are again in the lode, which has a splendid appearance; although the lode at present does not produce lead enough to save, a more promising lode cannot be seen, and, indging from present appearances, no miner could but recommend the extending of this level deeper into the hill to meet the stratum of ground which produced the lead broken from the lode opened on at the top of the hill, where the level is fast approaching at a great depth. We have again resumed clearing out the old workings on the manganese lode, which we hope to reach shortly.

— (Special Report).—J. Spargo, Dec. 6: By the request of my son, I have just looked at the lode in your south adit: I consider it a very promising lode indeed—in fact, I should say no man that is a judge of a lead lode could but advise the driving of this level, for two or three reasons. First, the ground is sort for driving; accord, the lode is all 4 feet which, with a beautiful underlie; third, the composition of the lode at the present depth is everything to warrant a course of lead at a deeper point; and, fourth, in extending on this level deeper in the lill you will intersect another channel of ground, where the lode is seen open on

hill you will intersect another channel of ground, where the lode is seen open on the top of the hill, near the shaft, from which splendid stones of lead have been

66.

g north

te vein, con. eam of rd level

of the elenty ed. I

copper ore, but not enough to value. In the 84 east the lode is 2 ft. wide, composed of capel, quartz, mundic, and occasional stones of copper ore. In the pitch in the back of the 84 east the lode is worth 101, per fm.

The back of the 84 east the lode is worth 102, per fm.

WHEAL GRENVILLE.—G. R. Odgers, William Bennetts, Dec. 6: There is no change in any of the operations at this mine since our advice for the meeting. The men in the Boundary shaft have not taken down any lode.

WHEAL KITTY (St. Agnes).—W. Polkinghorne, S. Davey, Dec. 1: In the 82, diving west of Holgate's shaft, the lode is producing good stones of tin.—Pryor's Lode: In the new shaft, sinking below the 65, the lode is 7 ft. wide, and worth for tin 201, per fm. In the 65, driving west of new shaft, the lode is worth for tin 25, per fm. In the 65, driving east of shaft, the lode is small and poor. In the 44, driving west of shaft, the lode is worth for tin 81, per fm.—When Williake us a week to cut through, when we will again give the value of the lode. In the 44, driving east of shaft, the lode is worth for tin 81, per fm.—When Williake us a week to cut through, when we will again give the value of the lode. In the 44, driving east of shaft, the lode is worth for tin 62, per fm.

WHEAL diving east of cross-cut, no lode has been taken down during the week. In the 24, driving east of shaft, the lode is worth for tin 62, per fm. WHEAL MARY FLORENCE.—W. Verran, Dec. 6: The deep adit level, which is being driven can to the course of the lode, is producing fine rocks of copper ore of good quality, and is opening up a fine piece of mining ground. We have about 12 fm., further to drive to intersect the large gossan lode just at right angles with the copper lode, and have reason to expect sliver-lead in it when intersected. Law's shaft is being sunk with all dispatch below the level of the deep adit, to open out mineral ground, when, according to present appearances, we shall have a very productive mine, and may look forward at no very distant resocute

reach the east end of the tin ground.

WHEAL SPARNON.—W. Tregay, E. Chegwin, Dec. 1: Jardine's Sump: The

DEC. 8, 1866.]

THE MINING JOURNAL.

THE MINING JOURNAL

**THE MINING JOUR Margurta—Santa Ann Mines for the months of Julyanud Augusts—
—The storing to the work of the control by the accident to the pomising wheel; I am happy to any is nearly at an end; by next week we shall, in all probability, and four days from the time of the breaking of the old wheel. We took advantage of this doppage to put in 40 hos. of her rods in Hingswert's shalt, new took and the property of the story of the story of the story of the story and the story an

amalgamated, and yielded \$22 grammes of amalgam. The level being driven to intersect the two gold-bearing lodes is in a beautiful stratum of rock.

VALLANZASGA GLOD.—J. Roberts, Dec. 1: You will be pleased to hear that our daily production of amalgam continues to be satisfactory; we have obtained since our last smelting sufficient to yield over \$50 ozs. of gold. The amalgamating mills are all in good working condition, and treating their usual quantity of ore daily. At the mine, the lode in the bottom of Saso Nero level is yielding ore worth i oz. of gold per ton. The lode in the stopes in the per ton. The lode in the hack of Parky yielding ore that gives I dwts, of gold per ton of ore. In the Abbsin level we have a lode 12 feet is lower to the per ton. The lode in the hack of Parky yielding ore that gives I dwts, of gold per ton of ore. In the Abbsin level we have a lode 12 feet is width; from it a large quantity of ore to the establishment.

VAL TOPPA GOLD.—William Roberts, Dec. 1: Piedimulera: We are happy to report an improvement at the mine. The lode in No. 3 stopes, in Fisher's level, is now 12 ft. wide, yielding large quantities of rich ore; and the lode in the stopes in back of Marmo Rosso level continues to be \$ft. wide, worth loz. 5 dwts. of gold per ton of ore. All the stopes not mentioned continue as last reported. The new amalgamating mills work well, as yet out yi lo in numbers of the per continues to the per continue as a stream, only 50 of the native mills are now at work. Notwithstanding this, we are pleased to sey that the amalgam obtained since our last smelting by the new and native mills are now at work. Notwithstanding this, we are pleased to sey that the amalgam obtained since our last smelting by the new and native mills are now at work. Notwithstanding this, we are pleased to sey that the amalgam obtained since our last smelting by the new and the reported of the stope of the search of the stope of the sear

ion of the winze sinking below the 34, to the north of the engine-shaft, is 20 inwide, containing a branch of ore 2 to 4 in. big. The bunch of ore in the bottom of the 44 fm. level, to the south of the shaft, has not been wrought on since
last reported.

SAN PEDRO DEL MONTE.—W. H. Chynoweth, Oct. 25: Captain
Bishop reached these mines in safety on the 10th instant. He has since had sufficient time to examine all the underground works, and from his opinion of the
several lodes, and our future prospects, which are highly favourable, the board
of directors will read with interest the following report on the mines:—Santa
Elena Shaft: On Monday last we recommenced sinking this shaft with twelve
men, with the object of cross-cutting Wilson's lode as speedily as possible at the
further depth of 15 or 20 varas (as may be decided upon), and to open levels
thereon. Wilson's level (50 varas deep) is being driven north and south, both
of which points are producing smelting ores in fair quantity. Up to date we
shall not be able to sink thereon until the shaft is deeper. The cross-cut in the
San Carlos level has not yet reached Wilson's lode; the ground is hard and
spare for driving. The San Miguel level is suspended for the present to facilitate the sinking of the shaft.—San Pedro Adli: The lode in the end is 1 vara
wide, and producing good sliver ores. The winze of San Francisco is being sunk
with as much energy as possible, and the orey part of the lode is 20 inches wide,
of a good quality.—San Enrique Level: Here we are very eart the cross-course
referred to in former reports, the influence of which has naturally disordered
the lode. We met with some very rich stones in driving this end, and expect,
—San Lorenzo Level: The lode in the end is 12 inches wide, chiefly composed of
spar, protted with mundic and blende, and is also letting out a large stream of
where the shaft.—San Lorenzo Level: The lode in the end is 12 inches wide, chiefly composed of
where the shaft has a superinted the smelting process, and I am d

sliver will be produced. I have, however, the satisfaction to state that we have several tons of rich ores ready to commence the smelting operations.

ON THE SMELTING OF REFRACTORY COPPER ORES WITH WOOD AS FUEL, IN AUSTRALIA.—Mr. J. L. Morgan, Assoc. Inst. C.E., read a paper on this subject at the Institution of Civil Engineers, in which he said that the Ophir Copper Mining Company, being compelled to smelt at their mines the ores of low percentage, which were very silicious, containing little iron or other matter favourable to the formation of a fluid slag, creted a melting furnace, the chief peculiarities of which were the materials used in its construction. Thus, in place of ordinary fire-bricks, quartz—refractory, as far as fire was concerned, and not less so when any attempt was made to shape it for the bricklayer—mined as best it could be, was put into an old furnace, kept red-bot for 48 hours, and then raked into "boshes" of cold water. It was now easily pounded into small particles, so that when mixed with a proportion of clay wash it could be moulded into a brick. For the false and working bottoms, a sandstone belonging to the Silurian system was used, which was discovered to be capable of withstanding a white heat, and when quarried was easily dressed. The area of the grate was made equal to that of the ordinary Swansea melting furnace, and the body of the furnace considerably smaller—precautions that proved to be unnecessary, for a more intense heat was obtained from the combustion of wood than woulf have been from first class coal. It was observed, however, that the cold air had a tendency to form pipos, or passages, between the ends of the logs and the sides of the fire-chamber, which greatly diminished, and occasionally almost neutralised, the heat produced from the legitimate combustion of the fuel. To obviate this, dead plates, or selves of cast-from, were placed round the fire-chamber, at the level of the fire-bars, and projecting fully 6 in. Into the area. The ore, although now subjected to a

of the furnace to nearly 15 ft. area. Though the author believed this practice to be universal in reverberatory furnaces, he considered that it must be wrong.

Magnesium Lamp.—An exhibition of the magnesium light, by the aid of Mr. Larkin's lamp, took place at the New Jerusalem School-room, Manchester. In this lamp the magnesium is burned in a state of coarse-grained powder, mixed with sand. This mixture is contained in a reservoir above the lamp, into which it descends by means of a small tube. Falling through the flame of an ordinary gaslight, the particles of magnesium are instantly burned, while the sand falls unchanged to the bottom of the lamp, where it becomes mixed with the magnesia, or product of the combustion of the metal. This method of burning magnesium is unquestionably both ingenions in its application and perfect in its results. That the light will burn steadily, continuously, and brilliantly for several hours has been lately proved in so many recent instances, as to remove all possibility of doubt. At Nottingham, during the meeting of the British Association in that town, two of these lamps were used to illuminate the winter garden, in which the soirces were held. For that purpose the invention was remarkably successful, the brilliancy of the scene being greatly enhanced by the small but powerful means of illumination which were employed. The light, afforded by this lamp is somewhat like monlight in the harvest months, but it leaves an unpleasant sensation on the retina, and if it were mellowed by any such means as ground or opaque glass, much of the piercing power of its rays would be lost. But although an invention may be, like this is, successful in its operation, there is another aspect in which all such matters must be viewed—its commercial value. In this respect Mr. Larkin's lamp will never, we fear, meet with the application which so perfect an invention deserves. The cost of using this lamp is stated to be about 20s. per hour. This, therefore, is equal to the consumption of more than 80

worthy the attention of all persons engaged in such occupations. The mixture of metal and sand is contained in one small reservoir, and some spirits of wine in the other. The instant mode in which an intense light can be thrown on any comparatively small space would render it very advantageous in mines and col-

CALDBECK FELLS.—The adjourned general meeting of shareholders UALDBECK FELLs.—The adjourned general meeting of shareholders will be held at Wigton on Wednesday, when the question will be decided as to whether the affairs of the company are to be controlled by a London or alocal direction. The property is opening out most satisfactorily, and it is to be hoped that it will be developed in a manner consenant with its admitted capabilities. manner consonant with its admitted capabilities.

At DARREN MINE the ore ground has been intersected by the ex-tension of the 25 fm. level west of the engine-shaft. Great import-ance is attached to this, owing to the level having fallen upon the ance is attached to this, owing to the level naving failen upon the ore ground some fathoms earlier than was calculated, but the early cutting into the ore gives the company the power of dealing with several thousand pounds worth of ore sooner than was anticipated. The length of ore ground in the adit level was about 15 fms., and in the 15 fm, level 27 fms., and it had so increased in yield as to be worth upwards of 201. worth of lead and silver to the fathom. In the bottom level this course of ore ground is only now cut into, and, of course, its value is only seen for a very short distance, but if it continues, of which there is every probability, the lower section will be much more valuable than anything yet seen in this part of the mine.

more valuable than anything yet seen in this part of the mine.

LOVELL CONSOLS.—By the report which appears in another column of this day's Journal, it will be seen that active operations have been commenced to develope the mine as quickly as possible, as there are many points of undoubted value which can be developed at once. The readiness with which shares have been taken show that when a mining property is introduced to the public on legitimate terms, there is no hesitation on the part of investors to embark in it. The agents, whose reports are appended to the prospectus, have no doubt but that large returns will be shortly made, especially as the lode in the 12 improves as they drive, now worth 10t, per fathom.

Normy When L. Conty.—This mine is opening up far more satis-

NORTH WHEAL CROFTY.—This mine is opening up far more satisfactorily than the most sanguine could desire. The 183 fathom level end east is reported as being worth 40% to 50%, per fathom, and the eastern stope in this level is worth 45% to 50%, per fathom, and the eastern stope in this level is worth 45% to 50%, per fathom; the western stope is worth 40% to 45%; this latterstope is some 10 fathoms easted Fraci's shaft, and in driving this distance the lode was worth about 10% to 12%, per fm. Seeing the richness of the western stope, the agent was induced to put in a cross-cut near Praci's shaft, in the side of the level which discovered a rich lode worth 25% to 27% per fathom. This discovery is of great importance, inasmuch as it 25% to 27% per fathom. This discovery is of great importance, inasmuch as it 25% to 27% per fathom. The 15% cast and west of Petherick's shaft, is worth 35% to 45% per fathom. The 15% cast and west of Petherick's shaft, is worth 15% per fathom; the 196 west, approaching the tin ground, is worth about 5% per fathom. The water is now drained to the 196, and the level is now being driven eastward by six mentowards the long run of tin ground, and is expected to be shortly in a rich course of tin. As will be seen from the above, this property is opening out one of the richest tin mines in Cornwall, and that the time is not far distant when it will again enter the Dividend List.

THE SCOTTISH AUSTRALIAN MINING COMPANY (Limited). THE SCOTTISH AUSTRALIAN MINING COMPANY (Limited).—With reference to the report of the meeting of this company, which appeared in last week's Journal, we are requested to state that Mr. A. L. Elder has acceeded to the wish of the proprietary, and retains his seat at the board of the company.

MINERAL RIGHTS ASSOCIATION.—The directors of this company have just received Mr. John Arthur Phillips's report on the Milton Willis and Knowlton conglomerate claims, which will be fully referred to next week.

FRONTINO AND BOLIVIA (SOUTH AMERICAN) GOLD MINING COM FRONTINO AND BOLIVIA (SOUTH AMERICA) double PANY.—By the mail to hand this week the directors were advised that the month's produce of gold from the Bolivia Mine was 261 ozs., and 41 ozs. from Frontino. Although the pecuniary irregularities of the late secretary are not of so serious an extent as was at first anticipated, it is not improbable a call will be required.

on the late secretary are not or a school as a call will be required.

MINING IN BRAZIL.—The discovery of a rich auriferous district in Ceara opens up a new field for gold mining in a part of Brazil hitherto little known to foreigners, which fact only can account for its having been so long neglected. The native population have for a long time been in the habit of collecting gold by washing the debris accumulated in the beds of the small streamlers; the gold there found being obviously due to the disintegration of the exposed lodes in the immediate vicinity, and at once directs the experienced miner to its source. The extensive mineral lode recently cliscovered (yielding on an average about 2 ozs. gold per ton) promises speedily to raise the provice of Ceara not only into a rival of, but far surpass, the wealthy province of Minas Geraes, in which latter rich mines, such as St. John del Rey, and others, have been so long and successfully worked. The locality of this valuable lode is near the head of the River Acaracie, and in close proximity to the foot of the Serra de Ibiapaba, or Serra Grande—a long mountain chain, runing nearly north and south, and rising to a height of from 2000 to 3000 ft., exhibiting on the eastern side an almost perpendicular cliff, from the base of which to the metamorphic schists, which are traversed with numerous auriferous veins, the lode hefore referred to appearing to be one of the principal.

the lode before referred to appearing to be one of the principal.

SILVER ORES FROM NEVADA AND THE PACIFIC COAST.—Mr.
Spargo, of Gresham House, has at his office a variety of these curious silver ores, which are found in abundance in so many places in the west of the continent of North America. A gentleman who has been connected with that portion of the New World for 15 years, has devoted the last six to the study of the silver ores of these countries, and the results of his investigations have been that he has found no less than 25 varieties of ores, all producing silver in larger or smaller quantities. That the public may be informed on these matters, Mr. Spargo has placed a large mass on the staircase at Gresham House, which has been no less than 2s varieties of ores, all producing siver in algo, and in a quantities. That the public may be informed on these matters. Mr. Spargo has placed a large mass on the staircase at Gresham House, which has been brought from the silver mines of Lower California, and is curious in its character to geologists in Europe. The following are the particulars connected with it:—The Marronean Mine is situated in the district of San Antonio, Lower California, about 90 miles north of Cape St. Lucas, and 45 miles south of the port of La Paz, which is a good shipping port on the west coast of the Gulf of California, and is accessible at all seasons of the year. The lode in which this nine is situated in a champoin lode, running north-east and south-west, which has been thoroughly developed for five miles, and is one body of mineral, of a thickness of 2 ft. 6 in. at a depth of 80 ft., and it will widen as it is sunk upon. It has its dip to the east, which is the angle at which all the undisturbed veins of the country are found, as the whole volcanic upthrow of that coast has all been thrown up from the east, and, therefore, lodes so found may be relied upon as continuing to any depth. A mine on the same lode, north of the Marronena, as the worked to a depth of 409 ft., and the body of mineral at that distance from the surface is from 12 to 18 feet in hickness, and another, which is now from the surface is from 12 to 18 feet in hickness, and another, which is now from the surface the most precious metals, are found in greater quantities the lower the earth's crust is precious metals, are found in greater quantities the lower the earth's crust is pencious metals, are found in greater quantities the lower the earth's crust is pencious metals, are found in greater quantities the lower the earth's crust is pencious metals, are found in greater quantities the lower the earth's crust is pencious metals, are found in greater quantities the lower the earth's crust is pencious metals, are found in greater quantities the lower

THE UNION HILL SILVER COMPANY.—The prospectus of this undertaking was briefly referred to in last week's Journal. An examination of the particulars will convince the most scrupulous that the nation of the particulars will convince the mines are such as to leave no doubt of the remunerative character of the speculation. The property purchased consists of three ledges or mines, known as the Blazing Star, the Northerner, and the Morning Glory; two about a mile north, and one a mile south of Austin, a city of about 6000. inhabitants, which has now free daily communication with San Francisco and New York, and is on the main line of telegraph to New York, and all parts of America. The Blazing Starhas a shaft sunk 40 ft., and all the indications which mark the best mines of the district are found in this vein. Prof. B. Silliman, of Yale College, says, in reference to an adjoining mine, "That the vein explored is one of the best in the district;" and further, "There are assembled about Austin a remarkable number of well-characterised mineral veins, of the best in the district;" and further, "There are assembled about Austin a remarkable number of well-characterised mineral veins, carrying the richest silver ore. For the amount of ground opened, and capital employed, there is no mining region comparable with it in Nevada for future promise, and for the judicious use of capital." Mr. Easton, a practical mineralogist of San Franchec, says of the Yankee Blade, Whitlach, and Maggio Mines, all of which are in immediate juxta-position to these mines, that "they are the best and richest silver mines it has ever been my pleasure to examine. The orea are a feast for a mineralogist to look at." The Northerner has a shart sunk to a depth of 60 feet, showing it to be a well-defined, regular quarts ledges. The rock will, probably, produce about \$200 per ton, and will be found much richer below the water level. The Morning Giory is near the Northerner, and only 250 yards from the famous Sonoma Mines. The indications are similar to the Northerner. Personal testimony to the prospectus of these mines has been given by Mr. French, one of the directors, and Mr. Joseph fluchinon, of San Francisco; both of whom have left their written testimony in letters, copies of which are annexed to the prospectus. Further evidence of undoubted authority is published from the finn. Joseph Usher, secretary of the Interior; the Hon. J. W. Nye, Governor of Nevada; the Right Rev. Bishop Simpson, of the Methodist Gauch; the San Francisco Stock and Exchange Circular; the New York Times; and also from the Times correspondent. It would seem unnecessary to address any further evidence than this. The directors propose to adopt a most prassworthy course of developing the property, the Blazing Star first; and it is estimated, upon reliable evidence, that an enormous profit can be made from this alone within the current year. The vendors show their confidence in its success by transferring the whole property entirely for shares. perty; but, to make assurance doubly sure, they are content that these shares should be all deferred, and not entitled to any interest or dividend whatever until after ordinary shareholders have received 20 per cent., with a provata distribution of surplus. Such terms speak for themselves, and are their own recommendation. It will be seen by advertisment in another column that the directors propose to allot the shares on Wednesday next.

JOINT-STOCK COMPANIES' LAW-NEW ORDER AS TO STAMPING JOINT-STOCK COMPANIES' LAW—NEW ORDER AS TO STAMPING.—The Lords of the Treasury have just issued new orders with respect to the stamping of documents required to be deposited with the Registrar of all Joint-Stock Companies. The stamps are to be procured and paid for by the persons paying the fees; all documents registered must bear an impressed stamp; office fees, not being for registrations, are to be paid by affixing adhesive stamp to the application for the thing to be done, or, with the Registrar's sanction, to the certificate, &c., required. The stamps are to be cancelled when used, and spoiled unused stamps will be allowed for.

- With this week's Journal a SUPPLEMENTAL SHEET is given, in which the Lectures on Mining, by Prof. Warington Smyth, at the Royal School of Mines, are continued; the Institution of Civil Engineers; Mr. James Robertson's paper on the Development of the Iron Trade, read at the London Association of Foremen Engineers' meeting; Factory Smoke and House Smoke; Coal in India; Coal in Labuan; the Principles of the Cost-book System Practically Considered, by Thomas Tapping, Esq.; Ma-nufacture of Gun-cotton; Improvements in Pulverising Ores; Nitro-Glycerine; Peat as a Smelting Fuel; Treating Slag, &c.
- With the Journal of Dec. 1 a SUPPLEMENTAL SHEET was given. With the Journal of Dec. 1 a SUPPLEMENTAL SHEET was given, in which appeared—Papers on Gas Lighting, on the Rail and at Sea; Coal Statistics v. Coal Strikes; Luteoline; Sodium Amalgamation; Algeria—No. III.; Mining in Ireland—No. III.; Caldbeck Fells Mines; Slate, and Slate Quarries; Extensive Ironworks in Austria: Hints to Emigrants—No. VII.; Artificial Tannin from Coal; Silesian Reverberatory Furnace; Steam Turbines; Compressed Air applied to the Working of Mines, &c.

The Mining Market; Prices of Metals, Ores, &c

METAL MARKET-LONDON, DEC. 7, 1866.

COPPER. £ s. d.	IRON. Per ton.
Best selectedper ton 84 0 0	Bars Welsh, in London 7 0 0-7 2
Tough cake and tile ., 81 0 0	Ditto, to arrive 7 0 0
Sheathing and sheets ,, 86 0 0	Nail rods 7 10 0-9 5
Bolts , 88 0 0	., Staffd, in London 8 7 6-8 17
Bottoms 91 0 0	Bars ditto 8 5 0-10 0
Old (Exchange) , 72 0 0	Hoops ditto 9 5 0-10 0
Burra Burra ,, 82 0 0	Sheets, single 10 0 0-11 0
Wireper lb. 0 1 0	Pig No. 1, in Wales 4 5 0- 4 10
Worker 0 0 111/	Refined metal, ditto., 4 0 0-5 0
BRASS. Per lb.	
Sheetsper lb. 93/4d	
Wire , 812d	Do., railway, in Wales 5 10 0-
Tubes , 10%d	Do., Swed. in London. 10 2 6-10 10
	To arrive 10 10 0
Yellow Metal Sheath.p. lb. 8d,	Pig, No. 1, in Clyde 2 14 9- 3 6
Sheets , 8d	Do. f.o.b. Tyne or Tees 2 9 6
SPELTER. Per ton.	Do. Nos. 3,4,f.o.b. do. 2 6 6-2 7
	Railway chairs 5 10 0- 5 15
Foreign on the spot 22 0 0	" spikes11 0 0-12 0
,, to arrive £21 15 0- 22 2 6	Y-11 (11) Dis-
ZINC.	Indian Charcoal Pigs,
	in London p. ton 7 0 0- 7 10
n sheets 28 0 0	STEEL. Per ton.
TIN.	
English blocks 85 0 0	Swed., in kegs(rolled)14 0 0-14 10
00., bars (in barrels) 86 0 0	,, (hammered) 16 0 0-16 10
00., refined 88 0 0	Ditto, in faggots16 10 0-17 10
Banca 82 0 0	English, spring19 0 0-23 0
traits£80 10 0- 81 0 0	QUICKSILVER (p. bottle) 6 18 0-7 0
TIN-PLATES. Per box.	LEAD. Per ton.
C Charcoal, 1st qua. 1 14 0	English Pig, com 20 0 0
X Ditto, 1st quality 2 0 0	Ditto, ordinary soft 20 5 0-20 10
C Ditto, 2d quality 1 10 0	Ditto (WB)22 15 0
X Ditto, 2d quality., 1 16 0	Ditto, sheet21 0 0
C Coke 1 4 6-1 6 0	Ditto, red lead21 10 0
X Ditto 1 10 6- 1 12 0	Ditto, white27 0 0-80 0
anada plates, p.ton 13 10 0	
Ditto, at works12 10 0-	
	Spanish
• At the works, is. to	is. ed. per box less.

REMARKS.—It seems now pretty evident that we must not look for any improvement in the Metal Market during the remainder of the present year, as there does not yet appear any manifestation of an opening in the general appearance of gloom and lifelessness which now hangs over the metal trade, the like of which has not been seen for many years past, and which, we trust, may not be again repeated for many years past, and which, we trust, may not be again repeated for many years past, and which, we trust, may not be again repeated for many years to come. Orders still continue to be given out very sparingly, and there seems very little inclination to do business at all in metals at present. There is little doubt that in the course of a few months at most the market will take a turn, and that we shall see a great revival in the trade, as so small a quantity of metals comparatively have been shipped lately abroad that stocks there must be getting very low, and that, consequently, ere long they must be replenished, when, of course, we shall see a much more active state of things arising in the metal trade; in the mean time, however, it is very discouraging to see week after week pass away, and little or no business being done. Still, we must endeavour to look forward to brighter days in store for the metal trade, which, we trust, may be such as to compensate for the present inaction. The United States seem to be just now sending the greatest quantity or orders, which, though small, are continuous.

COPPER.—On Monday, the smelters announced a reduction in prices of 5t. per ton, making present prices 86t, for sheets and sheathing, 84t, for best selected, and 81t, for tough cake, tile, and ingot. This official reduction had been expected for some time, and, as stated in our last report, sales had been already made at a greater decline; the present fall, therefore did not really make the markets lower.

in our last report, sales had been already made at a greater decline; the present fall, therefore, did not really make the market lower, but, on the contrary, had the effect of making it rather steadier; sales have, however, still been made under the official quotations,

and the market is very far from being in a satisfactory state.
YELLOW METAL.—Simultaneously with copper, a fall of 1d. per lb.
has been declared, making the present price 8d. per lb.

IRON.-In Staffordshire the trade continues dull, Orders are con-IRON.—In Staffordshire the trade continues dull. Orders are continuously given out, for small amounts it is true, but they are wanted to be completed rapidly, proving that stocks have run down very low. No very decided improvement can be looked for before the spring, but there are grounds for hoping that the trade will then take a turn for the better. In Welsh there is scarcely any business doing on home account, and there is not the slightest prospect of any immediate improvement taking place. Consumers who formerly gave out their orders for thousands of tons now only enter the market for their hundreds, and specifications are so scarce that operations at many of the mills and furnaces have become contracted, and makers are or the mills and furnaces have become contracted, and makers are put to great straits in keeping their works going. It is said that under the present disheartening state of things many of them will be compelled to stop operations for a time, unless a general reduction of wages be effected; and there is a prevalent opinion that before long notice will be given to the men for the latter alternative to be carried out throughout the South Wales district. Most of the large carried out throughout the South Wales district. Most of the large establishments are engaged on foreign contracts, and during the week a considerable quantity of railway iron has been cleared out for the Northern and Southern States of America, and two or three other markets, while a few parcels have also been shipped on foreign account. The demand from the United States keeps up tolerably well, and several good orders are expected to be placed before the end of the year. There is a fair enquiry for the Continent, and busi-ness with the other markets remains without change. In Swedish ness with the other markets remains without change. In Swedish iron there is only a small enquiry. In Scotch pig-iron there has been rather more activity during the past week, and a very fair amount of business has been done. Prices have greatly varied, at first rising from 53s. 9d. cash to 54s. 3d. cash, and then declining to 53s. 9d. again, and afterwards rising to 54s. cash, the last price re-

LEAD.—The amount of business transacted is not large, and prices remain unaltered.

TIN.—The market for foreign remains steady, at 801, 10s. to 812, each for Straits, and 821, for Banca. In English there is little business doing. In Holland the stock of Banca on Nov. 30 was 140,109 cash for strates, and 32. for Banca. In English there is little business doing. In Holland the stock of Banca on Nov. 30 was 140,109 slabs, against 109,259 slabs same time last year; and the arrivals to-

wards next sale were 60,624 slabs, against 90,300 slabs same time last year. The stock of tin in London on Dec. 1 was 3407 tons, against 2942 tons same time last year, and the quantity of Straits afloat for Europe is 711 tons, against 1515 tons same time last year, SPELTER.—The improvement noticed last week has continued, and business has been done on the spot at 22/L, and for delivery the end of January at 22/L. 2s. 6d. The stock in the port of London on Nov. 30 was 4168 tons, being a decrease of 728 tons during the month, TIN-PLATES.—There is a fair enquiry at the reduced quotations, STEEL and QUICKSILVER without change.

BIRMINGHAM, DEC. 7.—Rylands' "Iron Trade Circular" says— Trade even more dull and depressed, rather than excited by the cessation of the Northern Strike. Some Northern houses ask 5s. 6d, per ton extra for bars. South Wales, on the contrary, lower rails to from 5l. 5s. to 5l. 15s.

Very little change has taken place in the MINING SHARE MARKET his week, but a large amount of business has been transacted in Prince of Wales, North Crofty, East Grenville, Grenville, Wheal Crebor, Prosper United, West Frances, West Caradon, Wheal Agar, West Basset, Wheal Chiverton, and a few other mines. The standard for copper, we are glad to say, has advanced a little this week. West Chiverton shares have declined, and are heavy at 54 to 56, but chiefly, we believe, through market operations. Wheal Chiverton shares are in moderate request, at 6½ to 7½; Chiverton Moor shares have not been so firm, at 4½ to 4½; North Crofty shares have fluctuated from 2½ to 3½, leaving off 2½ to 3½; Prosper United shares have advanced to 2, 2¼, and the mine greatly improving. West Frances, 10 to 11. Prince of Wales shares, at one time this week, were knocked down in price, owing to very heavy market operations, but leave off 2½, to 26s.; the report this week is the best ever received from the mine, as it shows the course of ore is holding beyond both the east and western cross-courses. The sampling, expected to be 60 tons, has turned out 76, the best parcel being of an average produce of 9½, and the other 9½ per cent. Two very important points are near at hand—the cutting the north lode in the 55, which is letting out a great deal of water, and the cutting the south lode in the same level, which is already showing the forerunners of the course of ore in the 45; in the 45, west of cross-course, the lode is worth 10½ per fathom; in the 45 east, and east of the cross-course lately intersected, the lode has improved to 3 tons of good ore per fathom; the rise from the 45 to the standard of the cross-course lately intersected, the lode to the standard of the cross-course lately intersected, the lode to the standard of the cross-course lately intersected, the lode to the standard of the cross-course lately intersected, the lode to the standard of the cross-course lately intersected, the lode to the standard of the cross-course lately intersected, the lode to the standard of the cross-course lately intersected, the lode to the standard of the cross-course lately intersected, the lode to the same level. Crebor, Prosper United, West Frances, West Caradon, Wheal Agar,

in the 45, west of cross-course, the lode is worth 10£, per fathom; in the 45 east, and east of the cross-course lately intersected, the lode has improved to 3 tons of good ore per fathom; the rise from the 45 to the winze from the 30, will be communicated this week, when stoping will be commenced east and west in a good course of ore. Carn Camborne, 20s. to 22s.; Chontales Gold, 2½ to 2½; Clifford Amalgamated, 4 to 5; East Basset, 20 to 21; East Caradon, 4½ to 5; East Grenville, 1½ to 2½; East Lovell, 9 to 9½; East Russell, 3 to 3½; East Grenville, 1½ to 2½; Frontino and Bolivia, 2s. to 4s.; Great Laxey, 17 to 18; Great North Laxey, 25s. to 30s.

North Treskerby, 2½ to 2½; at the meeting, held on Tuesday, the accounts showed a profit in two months of 141£. 1s. 2d., and a balance in hand of 809£. 14s. 6d., independent of ore sold and to come to the credit of next account, of 1413£. 9s. 6d., but in consequence of the low price of tin and copper, it was resolved to defer the question of a dividend to the next account, in February. In the bottom of the 110 the agents state there is a good course of ore for 60 fathoms long, varying in value from 12£. to 30£. per fathom. Up to this time the 120, east of Tresidder's, has not proved so productive as expected, judging from the great run of ore ground in the 110; yet, looking at the present position of the elvan course, the agents are induced to think large and lasting returns will shortly be met with, Great Retallack, 8s. to 10s.; Great South Tolgus, 7s. 6d. to 12s. 6d.; Great Wheal Vor, 15 to 16. Wheal Basset, 60 to 65; at the meeting, on Tuesday, the accounts showed a profit of 17£. 15s. 3d. in the two months, and a balance in hand of 558£. 9s. 11d. No dividend was declared, but the committee express a hope that they will be resumed when the cost of the alterations at Richard's engine-shaft have been met. South Basset, 3 to 4; at the meeting the accounts showed 451£. 9s. against the shareholders, but no call was made, The engine-shaft is down 10 fathoms below the 132 The engine-shaft is down 10 fathoms below the 132; lode 6 ft. wide, composed of soft spar and peach, with occasional stones of grey and yellow ore, with a large stream of water in the very bottom of the shaft, leading to the expectation that Teague's lode will be intersected shortly. Marke Valley, 34 to 34; Lovell Consols, 3 to 34; Carnarvon Consols, 44 to 54; Providence Mines, 21 to 23; Rosewall Hill and Ransom United, 10s. to 12s. 6d.; South Condurrow, 12s. 6d. to 15s. At Gonamena meeting, held Dec. 1, a call of 2s. 6d. per share was made. The accounts showed a balance in favour of the adventurers crediting had and doubtful calls, of 21622.8s. 11d. Thereport was made. The accounts showed a balance in favour of the adventurers, crediting bad and doubtful calls, of 21621.8s. 11d. Thereport of the mine is favourable, and the agent sanguine of having good courses of ore on Venning's and Gilpin's lodes. South Frances, 19 to 21; West Caradon, 12½ to 13½; Wheal Buller, 18 to 20. Wheal Grenville, 25s. to 27s. 6d.; at the meeting, on Thursday, the accounts showed a balance of liabilities over assets of 9881, and a call of 2s. 6d. per share was made. The tin sold during the quarter realised 15492, 15s., copper ore 681, 9s. 11d. At the boundary shaft, which is down 38 fathoms from surface, the lode is 15 in. wide, composed of a splendid gossan, with black and grey ore, similar to the lode in East Grenville at shallow depths. Wheal Crebor, 10s. to 12s. 6d.; Wheal Margaret, 4 to 5; Wheal Mary Ann, 10 to 12; West Seton, 130 to 135; Wheal Trelawny, 6 to 8; Wheal Agar, 31s. to 33s.

On the Stock Exchange the business in the Mining Market has been very limited, but towards the close of the week there has been more animation. West Chiverton Mine is looking better than at any former period. The 100 has greatly improved. Price, 56 to 58. Shares are intrinsically worth much more. St. John del Rey, 51 to 52; Cobre, 1½ to 2, registered shares; Don Pedro, 3-16ths to 1-16th dis.; Anglo-Brazilian, 3-16ths to 1-16th; Pestarena Gold, ½ dis. to par; Scottish Australian, 11-16ths to 13-16ths; Port Phillip, 15-16ths to 1 1-16th. United Mexican enquired for at 1½ to 2. Panulcillo Copper, ½ dis. to par. Chontales shares have been in request, and close ½ dis., buyers. Chiverton, 6½ to 7; the shaft is down to the 100; lode worth 202, per fathom; mine improving. Clifford, 4½ to 5½; Drake Walls, ½ to ½ (call paid); Great Vor, 15 to 15½; Herodsfoot, 30 to 32; Great Laxey, 17½ to 18; New Seton, 35 to 40; Providence Mines, 23 to 25; Seton, 137½ to 142½; West Seton, 120 to 125; Westminster, 4½ to 5½. very limited, but towards the close of the week there has been animation. West Chiverton Mine is looking better than at any minster, 43 to 51.

IRISH MINE SHARE MARKET .- In the presence of movements of troops, arrests of real or suspected Fenians, searches for and discoveries of arms, and on the other hand many and influential demonstrates strations of 'oyalty, &c., it would not be reasonable to expect as yet any very perceptible recovery from the depression which has ruled for the last few weeks. The exciting topics of the day, just referred to, keep away many buyers, and induce some of the more timid holders to reduce their interests at prices which should result in transactions whereby the few who have sufficient confidence in more peaceful and generally better times not being very far off will, no doubt, ere long realise handsome profits. However, extreme caution is the prevailing tone of the market on our Stock Exchange, and it says much for the favour in which the leading mines are held that business is done in their shares at steady quotations. quence of misgivings as to the state of the copper market, which has, we are glad to say, just slightly improved, the Mining Company of Ireland shares were somewhat weaker, and were done a fraction under our quotations of last week, having changed hands at 16k. 15s. to 16k. 17s. 6d. for transfer, being a reduction of 2s. 6d. per share, at which price they left off rather firm. Wicklow Copper shares (2k. 10s. paid) were, as usual, remarkably steady, having realised 23k. for cash. Connorree shares have suffered a further fall, several transactions having taken place at 9s, per share, or 1s, per share below last week's price. The shares of the General Mining Com pany for Ireland have also not improved, they being on sale at 3l., nowithstanding the reports which the directors and the engineer of the company (Capt. William G. Roberts) delivered to their share-holders at their half-yearly general meeting, on Monday last, were of a very satisfactory character. At the meeting referred to (Mr Redmond Carroll in the chair) the secretary read the following as

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standard 3l., and in the price per ton of ore about 3s. 6d.

At the Swansea Ticketing, on Tuesday, 1091 tons of ore were sold, realising 7812*l*. 1s. The particulars of the sale were—Average standard, 90*l*. 11s. 3d.; average produce, 10\frac{3}{4}; average price per ton, 7*l*. 3s. 3d.; quantity of fine copper, 117\frac{1}{4} tons. The following are the particulars of the sales during the past month:—

[Date. Tons. Standard. Produce. Price per ton. Per unit. Ore copper. Nov. 20., 2717 ... £92 1 3 ... 15\frac{1}{2}s. ... £10 11 0 ... \frac{7}{4}\frac{1}{2}\sta11\frac{1}{2}d. £69 15 0 \text{ Dec. 4.} 10\sta10 11 ... \frac{7}{2}\sta11\frac{1}{2}d. £69 15 0 \text{ Compared with the last sale the decline has been in the standard of the price per ton of ore about 4s.

21, and in the price per ton of ore about 4s.

At Wheal Grenville meeting, on Tuesday, the accounts showed a bit balance of 9881. A call of 22. &d. per share was made. Capts. Odgers and senetts say—"We have 13 men on tribute, varying from 98. to 138. &d. in 11. fe have stamped during the last quarter 2280 tons of tinstone, which has aveged from 2% to 3 cwts. of tin per 100 sacks, or 10 tons. We estimate the cost rule quarter at from 7501, to 7801, per month, and we think to sell about the me quantity of tin and copper ore. The improved appearance of the lode in the 129 cast, and the very great probability of meeting something in the boundary laft and 90 cross-cut north, are, we think, great inducements for further per-

verance. At South Wheal Grenville meeting, on Tuesday, the accounts showed chalance of 321. 78, 10d. A call of 1s, per share was made. Some shares et at the last meeting were restored on solicitation. Capts, Odgers and ts say—"Seeing thegeneral improvement that is taking place in the chaof the lode, we feel more than ever impressed with the belief that it will be the property below."

last to a productive tode."

At Gonamena Mine meeting, on Dec. 1, the accounts for July and August showed a credit balance of 2162l. 8s. 11d. A call of 2s. per share was made. Capt. R. Pascoe says—" Our present costs in labour, merchants' bills, &c., will not exceed 200l. per month. We sold on Thursday last 46 tons of copper ore, which realised with the carriage about 140l."

At Wheal Mary Hutchins meeting, on Nov. 28 (Capt. Tom, R.N., in the chair), the accounts showed a credit balance of 228l. 12s. 2d., all costs being charged up to the end of October. No call was required. The report of the manager, capt. Edwards, was considered highly satisfactory. The new maching is expected to be set to work in about three weeks, when much larger returns of tin will be made.

At East Moor. Slate Ouarry, Company meeting, on Nov. 22, the

arms of tin will be made.

At East Moor Slate Quarry Company meeting, on Nov. 22, the ecounts to Nov. 17 showed a credit balance of 45t. 19s. 8d. Thanks were voted Mr. Thomas Field (who resigned the office of secretary through Ill health) for beast services, and Mr. J. W. Terry was appointed, at a salary of 4t. 4s, per louth. Mr. J. W. Gilbert, the manager, reported that since last meeting a illroad has been laid to the mouth of the pit, and a stope of ground taken away we whole leasth of the cutting. They would now commence to remove the reburden south of their present operations, which will make the pit 70 feet [mare, and when fully laid open good profits will be made, with an outlay of vm 35d. to 400t. more.

At the Pontgibaud Silver-Lead Mining and Smelting Company eeting, at Paris, on Nov. 30, the dividend for the year 1865-6 was fixed at

oft. (23s; 6d.) per share.

At the Laguna Silver Mining Company meeting, on Nov. 27, it was banimously resolved that a further issue of 517 shares, part of the original miber, should be made, raising the total to 2000. On these 517 shares only per share will be called, until the unpaid amount of shares already issued sheen called up. Another extraordinary meeting will be held on Friday next, confirm the resolution. A call of 10s. per share of the previously issued shares a been made. Subscriptions for 165 of the 517 new shares were received at emeding.

the meeting.

On the Stock Exchange only a limited amount of business has been transacted in Mining Shares during the week. The following quotations were officially recorded in British Mining Shares:—Great Lazey, 18, 17‡, 18; Marke Valley, 3½; Herodsfoot, 32; Mwyndy, ¾; East Basset, 18½, 19.—In Colonial and Foreign Mining Shares the prices were:—Yudanamutana, 1‡, 1‡; Chontales, 2‡, 2½; St. John del Rey, 51‡, 51‡, 51‡, 52; Cobre, ¾; Pontgibaud, 7‡; Washoe, 1‡.

OAL MARKET .- The arrivals this we COAL MARKET.—The arrivals this week only amount to 53 ships, but nearly the whole were steamers of large tonnage. The mild weather has checked the demand for household coals, and prices quote a reduction of fully 6d. per ton. Hartley and manufacturing coals without change. Hetton Wallsend, 22s. 6d.; Haswell Wallsend, 22s. 6d.; Harton Wallsend, 19s. 3d.; Hetton Lyons, 19s. 3d.; Tunstall Wallsend, 19s. 3d. Cargoes unsold, vil: ships at sea, 75.

CONTRACT FOR COAL.—The Commissioners of the Admiralty require the supply of 2000 tons of South Wales Coal, delivered at Haulbowline, for Her Majesty's steamships and vessels.

Mining and its Prospects.—(From Peter Watson's "Weekly Mining Circular and Share List—Synopsis of Cornish and Devon Mines," &c., of yesterday, Friday, Dec. 7, No. 400, vol. vili.)—"The market for mine shares has throughout the week maintained an activity that favourably compares with the general inactivity pervading every other description of security. The fact that the price of the is at least firm, and that the standard for copper advanced yesterday, should be accepted by the intending investor as an evidence that, when commerce improves, nothing is so likely to speedily and materially respond to the improvement as the value of metals. From the large number of cager purchasers that have lately appeared for shares in themines which I have for some time past recommended, it would seem that the opinion expressed above is not confined to myself, and I need hardly say that I am only too pleased to find that those who have adopted my recommendation are in a position, if they so choose, to realise good profits. If evidence were wanting to prove the incomparable advantages of mining as a legitimate investment over other channels for the employment of capital, one need only refer to the proceedings that are daily taking place in our law courts. The year now nearly closed has been, perhaps, unparalleled in financial disaster, in connection with every description of light in the latter, although adversedly affected by the price of metals, the result of the

otherwise general depression, if not productive of average profits to the investor has, at least, not involved him in direful losses, the end of which cannot yet be has, at least, not involved him in direful losses, the end of which cannot yet be seen. This being the case, in such an exceptionally depressed period as that from which we are now emerging, the inference obviously must be that in or dinary times the results will be much more in favour of mining as a sound an profitable investment. The observing investor will not fail to avail himself of the present opportunity to secure at merely nominal prices a judiciously-selected interest in such mines, as contain, per se, the elements of a permanent success but in this selection too much caution cannot be exercised. The public should ever bear in mind the fact, that it is not because a share in a mine can be pur chased at a low price the mine itself is unworthy the attention of the investor on the contrary, it often happens, from causes I need not now explain, that whet shares have no actual market existence is the opportune period to purchase."

THE TIN TRADE .- Mr. L. Th. van Houten (Rotterdam, Nov. 30) writes—The tin market has been very active this month, and a good business was done at advancing prices. For Banca, 46½ fl. was paid in the beginning of the month, from which an advance to 48 fl. took place. After a slight decline to 47 fl., the market closes strong at 47½ fl. Billiton—1000 slabs were sold at 45½ fl. The following statement shows the position of Banca tin in Holland on Nov. 30, from the official returns published by the Dutch Trading Communication.

Messrs. Von Dadelszen and North (Dec. 3) write—The amount of business reported during the month has been by no means large, and the same features have shown themselves as last month—a good con-

Total tons 10,248 9552 8221
The quantity of lin now affoat for England is 519 tons, against 1498 tons last y 7157

THE COPPER TRADE. -- Mr. Pitcairn-Campbell, Liverpool, reports-

Ingots. Barilla.

Messrs. Vivian and Younger (Dec. 7) write-On Monday last the Messrs. Vivina and Younger (Dec. 7) write—On Monday last the smelters reduced their rates \(\begin{align*} bl. \) per ton all round on copper, and \(\begin{align*} bl. \) per lb. on yellow metal. In a sense, this reduction had been fully discounted, for all descriptions could have been bought before the fall was declared under the reduced rates, and second-hand copper is still offering lower than smelters quotations. But there were many orders for both consumption and shipment which for various reasons were being held back till it was seen what the smelters would do. Since the drop these orders have been given out, and at the close we can report a steadier though not a much better market. The letters received by the Chilli mail, delivered late on the 1st inst., advised charters for about 950 tons of copper contents for England, and 500 tons for America. The prices had advanced considerably in Chill, and it was asserted that the only reason for more business not having been done in the article was the deficiency of stocks. The shipments for the third quarter were \$500 tons of fine copper, instead of 11,100 tons, as previously advised. Prices during the week have altered but little; if anything they are a little higher than they were. The general business has been fair, but we have no especial transactions to report.

MR. D. STICKLAND, M.E., having had upwards of 40 years' mining experience in Cornwall, several years of which he has had the entire management of mines therein, enables him to GIVE GOOD ADVICE thereon.

ereon. Mining, Railway, and other Shares bought, sold, or exchanged. Shares for le in mines and quarries that will pay 15 to 29 per cent. per annum. Offices, 5, Finsbury-street, London, E.C.

NOTICE OF REMOVAL.

M ESSRS. TREDINNICK AND CO MR. RICHARD TREDINNICK, MINING ENGINEER AND CONTRACTOR.

MR. THOMAS TREDINNICK, SCRIVENER.

OFFICES,—ST. MICHAEL'S HOUSE, CORNHILL, LONDON.
The business hitherto conducted at 7s, Lombard-street is transferred to the bove address.

Stocks, Shares in Banks, Railways, Canals, and Insurance Companies dealt, and Money Advanced upon all sound Securities. Principals alone treated ith.

PUBLIC COMPANIES PROMOTED.—The ADVERTISER is OPEN to INTRODUCE SCHEMES to the PUBLIC; PROMOTERS and CONCESSIONAIRES ASSISTED In PUBLISHING PROSPECTUSES; RAILWAY and other SHARES and DEBENTURES PLACED.—Address, "K. B. K.," MINING JOURNAL Office, 26, Fleet-street, London.

PRECONSHIRE, MID-WALES.—SLATE QUARRIES TO LET, near NEWBRIDGE-ON-WYE.—Apply to Mr. PRATT, Crickhowell.

TO MINING AGENTS AND DIRECTORS OF LEAD MINING COMPANIES. M ESSRS. WESTON AND COLLINGBORN, of No. 18, PETER near BITTON, BRISTOL, having fitted upon establishment at SWINFORD, near BITTON, BRISTOL, for the SMELTING and REFINING of SILVER-LEAD and the other qualities of LEAD ORES, are now prepared to PURCHASE by TENDER, or otherwise, LEAD ORES in any quantities that may be offered to them.—Swinford, near Bitton, Gloucestershire, Oct. 5, 1866.

TO MINE, SLATE QUARRY, AND RAILWAY COMPANIES.—CAPT. C. WILLIAMS IS NOW OPEN to UNDERTAKE ALL KINDS OF CONTRACTS, such as DRIVING LEVELS, SINKING SHAFTS, GONSTRUCTING WATER COUNTSES, CANALS, TRAMWAYS, &c., and ERECTING ALL SORTS OF MACHINERY for MINING and OTHER PURPOSES, having on hand at all times a first-class staff or miners and machinists, who will proceed to any part of the world upon the shortest notice.

N.B.—In all cases 30 per cent. will be left in hand until the work is complete.

Tyn-y-Wern, Taliesin, via Shrewsbury.

NOTICE.—CAPT. S. M. RIDGE, of LLANIDLOES, MONTGOMERYSHIRE (late manager of the Bryppastig and Cwm Fron Mines, and others, in Shropshire and Wales), is NOW OPEN to INSPECT and faithfully REPORT UPON ANY LEAD MINE in either of these localities that may be confided to his care, having had better than 30 years' experience in lead mining, as miner and agent.—Address, Capt. S. M. RIDGE, Llanddloes, Montgomershire.

LEAD ORES.

BLACK TIN.

Wheal Mary Hutchins sold, since Feb., 19t. 12c. 2q. 10lbs., for 911l. 15s. 5d.

BLENDE.

COPPER ORES

Mines.						Mines. Tons				
California	n105	 81/2	£5	8	6	Newfound-) 75	 1134	.£7	12	0
ditto	100	 8%	5	9	0	land 5 20	 221/2	. 14	17	0
ditto	97	 93/4	5	13	6	Californian 39	 21/2	. 0	16	0
ditto	93	 9	5	12	0	Wallaroo110	 1134	. 7	13	-
ditto	85	 91/8	5	12	0	Moonta Ore. 52	 17%	. 11	11	-0
ditto	40	 914	5	13	6	ditto 51	 17	. 11	13	- 6
Newfound	-) 82	 1416	9	3	0	Cronebane 48	 7	. 4	11	- (
land	. 5 80	 13%	9	3	0	ditto 14	 30	. 20	7	

 Californian Ore
 520
 £2888 18
 0 | Wallaroo
 110
 £844 5

 Newfoundland
 257
 2349 6
 0 | Moonta Ore
 103
 1194 15

 Californian
 39
 31 4
 0 | Cronebane
 62
 503 13

COMPANIES BY WHOM THE ORES WERE PURCHASED. £ 7812 1 0

| TOTALS AND AVERAGES. | 21 cwts. | Produce. | Price. | Standa | Whole sale. | 1091 | 101/4 | 127 | 3 | 2 | 20 | 11

COPPER ORES. Sampled Nov. 21, and sold at Tabb's Hotel, Redruth, Dec. 6.

Mines.	Tons.	Pr	ice.		Mines.	Ton		ice.	
Wheal Seto	n110	 £1	11	6	South Crofty	. 71	 $\pounds 2$	10	(
ditto	88	 4	5	6	ditto	. 66	 2		-
ditto	****** 87	 3	14	0	ditto	. 52	 4	0	
ditto	******* 86	 4	12	6	ditto	. 37	 8	10	-
ditto	83	 4	1	6	ditto		1	3	-
ditto	77	 4	6	0	West Tolgus	. 96	 4	2	
ditto	64	 4	14	0	ditto	. 91	 4	1	-
ditto	63	 4	0	0	ditto		4	1	(
ditto	****** 53	 4	12	6	ditto	. 58	 4	0	(
ditto	49	 3	9	0	East Pool	. 61	 3	0	
ditto	40	 3	14	0	ditto	. 48	 3	10	(
ditto	17	 1	12	0	ditto	. 40	 4	10	1
ditto	6	 1	11	0	ditto	. 31	 2	19	-
	alg: n103		14	6	ditto		 2	18	(
ditto	100	 2	16	6	Carn Camborne	. 60	 2	13	6
ditto	93	 3	16	0	ditto	. 51	 1	13	•
ditto	78	 2	4	0	ditto	. 49	 1	3	
ditto	54		14	0	ditto		 5	6	(
ditto	42	 3	16	0	Wheal Basset		 4	2	0
ditto		 2	7	0	ditto		 3	5	
ditto	25	 4	4	6	ditto	. 42	 4	15	(
ditto	28	 11	15	6	ditto	. 28	 1	18	0
West Seton	72 .	 3	5	0	ditto	. 20	 7	2	(
ditto	69 .	 5	16	8	Dolcoath	. 53	 4	10	
ditto		 2	2	6	ditto		3	8	-
ditto		 3	1	6	South Frances		 6	11	
ditto			15	6	ditto		 4	6	
ditto	53 .	 7	16	6	East Basset		3	15	-
ditto	49 .	 4	8	6	Pennance		 3	7	- 6
ditto	43 .	 4	1	3	Stray Park		 - 3	3	-
ditto	41 .		13	0	Pendarves United .		 2	12	-
South Croft	V 77	 3	15	0	Crane	. 7	 - 2	6	-

COMPANIES BY WHOM THE ORES WERE PURCHASED.
Names. Amoun

Copper ores for sale at Tabb's Hotel, Redruth, on Thursday next.—Mines and Parcels.—Prosper United 480—Carn Brea 318—East Carn Brea 242—Rosewarne United 183—Great-South Tolgus 181—Crenver and Abraham 148—Par Consols 133—South Dolcoath 55—St. Day United 54—Mellanear 54—Champion's Ore 48—Rosewarne Consols 40—Treffry's Regulus 24—Beaglehole's Ore 13—Jenning's Ore 4.—Total, 1977 tons.

Copper ores for sale at the Royal Hotel, Truro, on Thursday week.—Mines and Parcels.—Devon Great Consols 1437—Marke Valley 444—East Caradon 310—Brookwood 255—Okel Tor 230—Gawton Copper 192—Wheal Friendship 120—Bedford United 104—Bampfylde 83—Prince of Wales 76—Gunnislake 50—Fursdon 29—Lady Bertha 27—Wheal Edward 29—Collacombe 8—Daniel's Ore 2,—Total, 3890 tons.

WATSON AND CUELL'S MINING CIRCULAR

WATSON AND CUELL,

MINING AGENTS, STOCK AND SHARE DEALERS, &c. 1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

MESSRS. WATSON AND CUELL having made arrangements for transferring their weekly Circular, which has had so large a circulation during the past ten years, to the columns of the Mining Journal, their special eports and remarks upon mines and mining, and the state of the share market, will in future appear in this column.

In the year 1843, when Cornish mining was almost unknown to the general pablic, attention was first called to its advantages, when properly conducted, in the "Compendium of British Mining," commenced in 1837, and published in 1843, by Mr. J. Y. WATSON, F.G.S., anthor of "Gleanings among Mines and Miners," "Records of Ancient Mining," "Cornish Notes" (first series, 1882), "Cornish Notes" (second series, 1863), "The Progress of Mining," with statistics of the Mining Interest, annually for 21 years, &c., &c. In the Compendium, published in 1843, Mr. WATSON was the first to recommend the system of a "division of small risks in several mines, ensuring success in the aggregate," and Messrs. "WATSON and CUELL have always a selected list on hand. Perhaps at no former period in the annals of mining has there been more peculiar need of honest and experienced advice in regard to mines and share dealing than there is at present; and, from the lengthened experience of Messrs. WATSON and CUELL they are emboldened to offer, thus publicly, their best services to all connected with mines or the market, as they have for so many years done privately, through the medium of their own Circular.

or the market, as they have for so many years done privately, through the medium of their own Circular.

Meszrs. WATSON and CUELL transact business in the purchase and sale of mining shares, and other securities, payments of calls, receipt and transmission of divivends, obtaining information for clients, and affording advice, to the best of their knowledge and judgment, based on the experience of more than 30 years active connection with the Mining Market.

Messrs. WATSON and CUELL also inform their clients and the public that they transact business in the public funds, rallway, docks, insurance, and every other description of shares dealt in on the Stock Exchange.

Messrs. WATSON and CUELL are also daily asked their opinion of particular mines, as well as to recommend mines to invest or speculate in, and they give their advice and recommend mines to the best of their judgment and ability, founded on the best practical advice they can obtain from the mining districts, but they will not be held responsible, nor subject to blame, if results do not always equal the expectations they may have held out in a property so fluctuating as mining.

ways equal the expectations they may have need out in a property as mining.

Messrs. WATSON and CUELL having agents and correspondents in all the mining districts, and an extensive connection among the largest holders of mining property, have the more confidence in tendering their advice on all matters relating to the state and prospects of mines and mining companies, and are able to supply shares in all the best mines at close market prices, free of all charge

to supply shares in all the best mines at close market prices, free of all charge for commission.

WHEAL BULLER—"INQUIRER."—The object in dividing the sett, we believe, is this:—It is a very large one, and between Hocking's and Kistler's shafts for a considerable distance there is a lode in the bottom of the 80 fm. level worth 50l. to 100l. per fm.; but nothing is doing here, because to get at the ore Hocking's shaft must be sunk 10 fms. deeper, which cannot be done without the erection of a steam-engine. This and Old Buller would prove one of the finest and most certain speculations in Cornwall, and would long ago have been worked, but for the fear of making heavy calls. The plan, therefore, is this. Divide the sett: one part to include Stevens, Whitford, and Davey's engine-shafts, at present the richest in the mine, and which, it is said, would, if worked by themselves, yield good profits; the other part would take in Hocking's and Kistler's shafts, 90 fms. apart, and also the Old Buller, once so rich but not half worked. A shareholder, therefore, would be in this position, supposing the arrangement carried out—1-512th share as it now stands would have 1-512th in each part of the present sett, or, as it would then be, five mines: for the sake of argument let us call them Wheal Gamp and Wheal Harris; 1-512th in the former would be in an established mine, to pay dividends at an early date, when relieved of the present cost of working the latter, and 1-512th in the former would be in an established mine, to pay dividends at an early date, when relieved of the present cost of working the latter, and 1-512th in the former would be in an established mine, to pay dividends at an early date, when relieved of the present cost of working the latter, and 1-512th in the former would be in the set of the present here were the course of ore between Hocking's and Kistler's, and also the Old Buller. This arrangement seems to us preferable to making heavy calls on the present shares, which mast be done if what we have called

uredly ought to be. 'CYMRO."—No. 1 good; 2, speculative; 3, bad; 4, very fair; 5,

OLD GUNNISLAKE—" X. Y."—There is a very fine gossan lode in rker's shaft, and by proper economy in working the shareholders are likely reap their reward. No doubt this mine got into bad repute, but great changes the management have been made. The cash is now sent down regularly from ondon, and the merchants' accounts strictly investigated and provided for.

the management have been made. The cash is now sent down regularly room ondon, and the merchants' accounts strictly investigated and provided for.

"R. S. T." (Manchester).—We can only answer privately.

"S. D."—The fee for inspecting would be 2l. 2s, and expenses robably, 5s, to 10s. If these sort of inspections were made oftener shareholder.

probably, 5s. to 10s. If these sort of inspections were made oftener shareholders would save themselves much trouble and anxiety.

"A." (Bath).—New East Russell is adjoining East Russell, near Tavistock, and is worked by water-power.

"A SHAREHOLDER."—Copper Hill has been a mystery. It is between Buller and East Basset, and a course of ore in the latter worth 70l. per fathom was worked up to the boundary of Copper Hill. One winze in the mine is producing 5 tons of copper ore per fin, and a stope 7 tons. At the 76 there is a cross-cut to the north lode, which at the 50 and 69 produced good quality copper ores; and it is expected it will be met with at the 76 in about 7 fms. driving.

ORGANIC CHEMISTRY.

ORGANIC CHEMISTRY.

The character of a work on Chemistry, bearing the name of William Allen Millen on its title-page as author, would be at once indged of by all who have given the science their attention, and the exalted position in which his scientific attainments, especially in connection with chemistry, have placed him would alone commend his works to those who are too young as students to have profeted by his labours. Prof. Miller's chemical works have been so long in use that the views entertained on many points have been materially modified by further researches, so that the remodelling of the books became an absolute necessity. In the third edition of the third part, embracing Organic Chemistry, just issued, the present state of the science is thoroughly reflected, and the greatest care has been taken to offer every facility for comprehending and appreciating the changes in the nomenclature and notation which have been introduced. The nature of the changes made can be best understood from the Professor's words:—

"The most important changes in the present edition consist in the adoption of a new notation, and in a recurrence in the concluding volume to the system of nomenclature introduced by Berzelius. This nomenclature has been need occasionally ever since it was proposed, but it was not extensively adopted by chemical writers in this country, must its merits were prominently insisted upon, two or three years ago, or Prof. Williamson. The subsclution of such terms as potnassic nitrate for nitrate of potash, sodie sulphate for sulphate of soda, and zincie oxide for oxide of zinc may, like most changes, appear at first awkward and pedantic, set the system possesses advantages in brevity and precision, which will, there can be no doubt, lead to its gradual abusticution for the older nomenciature. The change in notation will, doubtless, be attended with more inconvenience, though it is certain to be adopted, since in none of the recent inconvenience, though it is certain to be adopted, since in none of th

quently so confusing to a mind not thoroughly cultivated, it will suffice to state
the mode in which the Professor divides his subject—the skill and completeness
with which each portion is treated being too apparent to need comment.

The introductory chapter is devoted to the definition of terms, analysis of
organic bodies, classification of organic compounds, and the production of chemical metamorphoses. The order in which the various compounds of organic
chemistry is treated is—Sugar, starch, and ligneous fibre; Alcohols, ethers, and
their derivatives; Fats, fixed oils, and their allied acids; Certain organic acids
of vegetable origin; Amides and organic bases; Essential oils and resins;
Colouring matters; Products of destructive distillation; Cyanogen and their
derivatives; Nitrogenised principles of plants and animals; and Certain products peculiar to animals. The section on chemical types is at once the most
comprehensive and complete we have seen. In the second chapter, embracing
the amylaceous group—the Varietles of sugar. Varietles of starch and gum.
Cellulin and woody fibre, and Fermentation are treated of; and, in the following chapter, the monatomic and diatomic alcohols and ethers are considered.
The Triatomic alcohols and their compounds—the fats and fixed oils, &c., occupy
the fourth chapter; and then follows a chapter on the Products of oxidation of
the alcohols—acids. The Amides and organic bases; Essential oils and resins;
and Coloring matters each occupy a chapter, and we have then a chapter,
highly interesting to the readers of the Mining Journal on the Products of
destructive distillation. The Products of the distillation of peats;
the products of the distillation of both the products of
the distillation of coal—embracing the manufacture of gas, the
components of coal tar, and the detailed consideration of both the phenic and
naphthalic products thereof; and the Products of the distillation of both
him, parafin oil, crossote, &c.; the Products of the distillation of both
him paraficula

" Elements of Chemistry: Theoretical and Practical." By William Allen Miller, Treas. and V.P.R.S., P.C.S., &c. London: Longmans, Paternoster.row.

Atomic theory, atomic volumes, atomic heat, and heat of combination. Compendious tables are appended, to facilitate the employment of the book as a work of reference.

Regarding the book as a whole, it is undoubtedly the most valuable and useful volume upon the subject which has yet appeared in the English language; advantage has been taken of all the improvements which extended research has suggested, but, at the same time, especial care has been taken that no unnecessary inconvenience shall arise from the changes made, and that the use of this shall not render the successful study of other standard works impracticable; it is one which every student-seeking celebrity in the science should possess himself of, and one which will well repay him forany amount of study devoted to it.

GUTCH'S LITERARY AND SCIENTIFIC REGISTER AND ALMANACK e twenty-sixth annual edition of this well-known and useful pocket-ust been issued by Mr. W. Stevens, of 421, Strand. In addition Almanack matter, Gutch's Pocket-Book contains an enormous amour usual Almanack matter, Gutch's Pocket-Book contains an enormous amount of information relating to almost every science, the whole arranged in the most compact form, and so as to be very readily referred to. As evidence of the reliance to be placed on the particulars given, it will suffice to state that the Geologica chapter, in which the readers of the Journal will be particularly interested, has been compiled expressly for the work by Prof. J. Beete Jukes, F.R.S., the director of the Geological Survey of Ireland, and that the other sciences are equally well treated.

USEFUL INFORMATION FOR ENGINEERS.—The third series of Mr. W. FAIRBAIRN'S Manuals bearing this title has just been issued (through Messrs. Longmans) in the form of a handsome little volume of some 330 pages. To the six lectures a large amount of information is added, which cannot fail to prove of much utility to those for whom it is intended. Referring to George Stephenson, Mr. Fairbairn considers that he "could scarcely be called an inventor or a man of great intellectual capacity," but he is willing to "accord to him the merit of a hard worker, a distinguished engineer, and a man of indomitable perseverance." Such an opinion of a man whose intellect has revolutionised the world, and formed the basis of every change which has taken place either in the old world or the new during the past half-century, would scarcely have been hazarded by anyone but a man of such established reputation as Mr. Fairbairn, unless, indeed, it were by one of those who have never learnt the indisputable truth that "the wise alone can afford to praise, the foolish must condemn." But for Stephenson the very race to which Mr. Fairbairn belongs would never have sprung into existence; it is from Stephenson's intellect that all our present generation of engineers have drawn their sustenance, as the misletoe does from the oak. The chapter on the Construction of Iron Roofs is really admirable, and well worthy of attentive study. The book is enriched with an abundance of engravings, which greatly facilitate the profitable reading the various subjects treated of. USEFUL INFORMATION FOR ENGINEERS.—The third series of Mr

Notices to Correspondents.

• Much inconvenience having arisen in consequence of several of the Number during the past year being out of print, we recommend that the Journal should be filled on receipt: it then forms an accumulating useful work of reference.

PROMOTERS, AND THEIR POWER OF USING NOMINEES' NAMES,—May I whether under any circumstances a promoter possesses the power of place. whether under any circumstances a promoter possesses the power of placing names of persons upon the register of shareholders without either the written consent of such parties or by ordinary transfer; whether, in other words, promoters' (or free) shares must not either be altotted upon written application or by transfer from the promoter? Does the mere sending of certificates to parties (who may or may not retain or destroy them) impose the responsibility or liability attaching thereto?—Tyno.

SAFETY APPARATES FOR PIT CAGES.—Can any of your readers inform me what is the number of the patents of Aytoun's, Broadbent's, Fourdrinier's, and Owen's safety apparatus for pit cages 7—P. C.

Owen's safety apparatus for pit cages ?—P. C.

ROSEWARNE UNITED.—Can any of your correspondents inform me the reason of this mine standing at its present price—it actually having made a profit in the last two months' working, and at the present time is only about 142. In debt, and has sampled nearly 1000!, worth of ore for the next meeting?—X. Y. Z.

NEW TAMAR SILVER-LEAD MINE,—There can be no reason for any broker of dealer stating, as was done last week, "that they know nothing of this concern"—If they like to take the trouble to enquire. The secretary's offices are at St. Michael's House, Cornhill, and the capitain's reports are not only sent to the Missing Journal weekly, but are regularly posted in the Mining Exchange, several members of that institution, as also of the Stock Exchange, seing shareholders in it; and the shares are readily salcable in both markets.

—A SHAREHOLDER.

—A SHAREHOLDER.

New TRELAWNY (St. Ives).—I have been in weekly anticipation of seeing some reply to the enquiries in the Journal of Oct. 20, in reference to this mine, and fully expected someone in connection with it would have responded, and given the mining community some idea of the true merit and actual position of the concern. It is true that a small second-hand rotary engine, on the locomotive principle, usually termed a "puffer," with but a limited extent of power, has recently been set to work, and which was dispensed with at Wheal Caradon, some years since, for the enormous amount of coals it consumed, and insufficiency of power.—TRUTH.

insumercincy of power.—The notice from the anonymous correspondent in last week's Journal somewhat surprised me. I certainly have never seen a report from South Callington where there has been a point valued. Had there been a point to value, depend upon it the mine would not now be selling at about the rate of 2000t. for the entire property. The mine is open to the inspection of any shareholder, and to a shareholder I shall be happy to afford every information.—J. B. REYNOLDS, Sec.

PURE IRON.—A paragraph appeared in the Supplement to the Journal of Nov. 10 as follows:—"The iron obtained by heating in the nitride of hydrogen has a silver-white colour, is extraordinarily ductile, and may be easily cut with a knife," &c. Can any reader oblige us with the name of the author of the experiment, as we wish to obtain the commercial name of the above nitride of hydrogen?—W. S.

hydrogen?—W. S.

THE DEEPEST COAL MINE IN ENGLAND.—In reply to the enquiry of your correspondent for the name of the deepest coal mine in England, permit me to state that the Dukinfield pit, near Manchester, is one of if not the deepest mine, being 2955 feet deep. It has been found that the increase of temperature in descending varies from 51° at 20 feet to 75° 30° at 2055 feet, the difference being 24° 30°, or at the rate of 1° for each 84 feet; but no useful conclusion can be drawn from the fact, because, taking the distances in two portions, the increase was from 20 feet to 655 feet 1° in 59 feet, and from 695 feet to workings than to any other cause.—F.

WHEAL TREVENNA AND ITS MANGEMENT.—Scaling the remember of the support of the workings than to any other cause.—F.

workings than to any other cause.—F.

WHEAL TREVENNA, AND ITS MANAGEMENT.—Seeing the remarks of a "Share-holder" (Manchester) in last week's Journal, permit me to state that I am quite of the same opinion; it is high time that the shareholders began to receive seme return for their patience and outlay. Surely, after three years' working, and the expenditure upon the mine and amongst theofficials of about 1900t., with the working expenditure trilling compared with other mines, good returns ought to be fortunoming, and dividends instead of calls should be the subject discussed at the meetings. I believe, as a Manchester shareholder, that too much power is vested in directors, many of whom, perhaps, hold but a limited interest. If shareholders would elect some of their own number as directors, and see that each has a peeunlary interest in the concern, then they might naturally suppose that the mines would be worked with spirit and economy, instead of carelessness in working and extravagance in expenditure. As a shareholder from the formation of the convent of the concern. As a shareholder from the formation of the company I have still patience, but think there should be some appearance of business.—P. J.

THE MINING JOURNAL,

Bailway and Commercial Gazette.

LONDON, DECEMBER 8, 1866.

The low price at which copper now stands, and the consequent in-The low price at which copper now stands, and the consequent in-activity at many mines, where the yield is not of high percentage, renders the question of production a very important matter both to the proprietor and consumer. The unit is now only 14s., yet the de-mand for the metal continues, and the supply must be kept up from one source or another. At home various projects are in contempla-tion for working the poorer ores, by such methods of economical dressing and extraction, that those of low yield may be brought to a resint equivalent in market value to the richer mines: but the point point equivalent in market value to the richer mines; but the point to be considered is, whether such processes, even if successful, will be sufficient to remove the difficulty, or that this country must look to our colonies, and other places, for the necessary means of making the supply equal to the demand. It is, therefore, important to look at the results of various transmarine mining enterprises, and so endeavour to see from what quarter there is the at the results of various transmarine mining enterprises, and so endeavour to see from what quarter there is the best chance of obtaining that which is required, with benefit to those who sell. In our last publication we gave a report of the proceedings of the meeting of shareholders of the Panulcillo Copper Company (Limited), which is an undertaking established by English capital, for mining purposes in Chili. It has been prosecuted with vigour, and about 150,000% expended in developing the resources of the property, with a success that has enabled the company to divide dividends of 10 per cent. During the last half-year of their accounts 19,630 tons of ore, averaging 5 per cent., had been smelted, and produced 2960 tons of ing that which is required, with benefit to those who sell. In our last publication we gave a report of the proceedings of the meeting of shareholders of the Panulcillo Copper Company (Limited), which is an undertaking established by English capital, for mining purposes in Chili. It has been prosecuted with vigour, and about 150,000\(lambda\) expended in developing the resources of the property, with a success that has enabled the company to divide dividends of 10 per cent. During the last half-year of their accounts 19,630 tons of ore, averaging 5 per cent., had been smelted, and produced 2960 tons of regulus, of 33\(lambda\) per cent. which, at the present rate of 14s, per unit, is equivalent to 23\(lambda\). So, per ton of regulus, or a total of 69,412\(lambda\); and as the expenses and charges, including freight, were estimated at 12\(lambda\). 12s. 9d. per ton, or 64,047\(lambda\), the profit left was 5365\(lambda\), or about 1\(lambda\). 16s. 3d. per ton. Passing to Australia, whence we draw such large supplies of this ore, and in many cases of high percentage in its natural state, we find that the celebrated Burra Burra does not yield according to the Secretary's statement, which has been made public,

more than 4 to 5 percent, from the shallow levels, but by a successful, although rather expensive, principle of dressing, it is made to yield as much as 22 per cent. At the Moonta, where the produce is about the same class of ore as at the Burra Burra—4 to 5 per cent.—it is dressed up to 20½ per cent., and the yield for the last six months was 11,066 tons of this standard, which enabled the company to pay 15½ per share in dividends on each 5½ share, or equivalent to 30½ per annum, or 600 per cent. The lodes are stated to be only 2 to 5 feet wide, the richest 5 feet, which produces about 7 tons per fathom. Neither the Burra Burra nor the Moonta smelt their own ores, but dispose of them to companies more especially identified with such business. At the Worthing the ore raised during the previous twelve months was 3130 tons, which produced 641 tons of regulus, and realised from 30½ to 45½ per ton, the lower price being the consequence of the present depressed value of copper. The quantity of wood purchased was 15,367 tons. It does not appear what quantity was consumed, but it may be calculated at about 5 or 6 tons per ton of ore. At Blimman, one of the mines of the Yudanamutana Company, the main lode is 9 feet wide, and produces 20 to 22 tons per fathom, of about 14 to 16 per cent. average as broken. During the two last months, August and September, 244 tons of ore were smelted, and produced from one furnace 42½ tons of copper, of 95 per cent., which, at 14s. per unit, is equivalent to 66½ los. per ton, or 2805½ los. for the whole; and as only 3 tons of wood are used at this mine for every ton of ore, at 10s. per ton, the cost of fuel is 8½. I2s. 3d. per ton of metal. The quantity of wood delivered was about 1300 tons per month, which would reduce about 430 tons of ore into 74 tons of copper of 95 per cent.

copper of 30 per cent.

It is a remarkable fact in connection with the foregoing that the ores of the Burra Burra and the Moonta were dressed up to the yield stated, but the principal ores of the Blimman are sent to the furnace stated, but the principal ores of the Blimman are sent to the furnace without anything being done to them more than was necessary for cleaning. As the Burra Burra and Moonta, as already stated, do not smelt their own ores, no returns are published to show the relative proportion of ore to metal; but from the other mines mentioned we have data by which we see that at the Panulcillo 20 tons of ore produce 1 ton of metal; at the Worthing 16 to 18 tons give the same result, but at Blimman only 6 tons of ore are required for 1 tons. same result, but at Blinman only 6 tons of ore are required for 1 ton of metal. The Cornish and Devonshire mines take about 20 tons of ore to one of copper, so that in this instance they stand their relative ground, and it is a feature of much importance in connection

with home enterprise.

These particulars are sufficient to show that, with the exception of the Blinman, none of these properties give a better return of crude the Blinman, none of these properties give a better return of crude ores as to percentage, or as respects ore against metal, than those of Cornwall or Devon; but the quantities are large, and the means of conversion into regulus or metal is not only cheap in Australia, but the best for such purposes, wood being only about 10s, per ton. As respects Chili, this does not apply, but the contrary. A heavy expense has to be incurred in sending coals from this country, which, of course, is a serious drawback in producing beneficial results. There seems, therefore, no reason for desponding on the part of the British copper miner, and attention and care will enable him to cope with the foreign mines of equivalent yield, although it is impossible to come into competition with those which produce ore of extraordinary high percentage and in such large quantities. This country has always except. into competition with those which produce ore of extraordinary high percentage and in such large quantities. This country has always looked for, and had large quantities of, copper from other places to meet the requirements of increasing population and extension in the use of the metal; but we do not believe that the increase in the imortations is greater than what is relatively necessary to keep pace with trade and commerce. Our own production does not meet the demand; but there is no reason why home enterprise in the baser metals should not maintain its ground. Hitherto our supplies have been chiefly from Chili, Cuba, Australia, Spain, and other countries in smaller quantities. During the ten months of this year, to which in smaller quantities. During the ten months of this year, to which date the official returns are made up, the imports amounted to 74,666 tons of copper ore, while the amount for the same period of 1865 was 61,650 tons. Chili, Australia, and "other countries" showing an increase, and Cuba and Spain a decrease. Of regulus there was imported 28,866 tons, which were exclusively from Chili, excepting 3555 tons from other countries; but this aggregate was only 203 tons over the total of last year. In addition, unwrought and part wrought copper was brought in to the extent of 273,080 cwts., against 321,980 cwts. in 1865, consequently a decrease of 48,900 cwts., Chili having furnished 162,820 cwts., Australia 61,900 cwts., and other countries 48,360 cwts., the first being a decrease of 73,600 cwts., the secondan increase of 33,980 cwts., and the last an increase of 720 cwts. We believe that when this depressing year of 1866 has gone into the past a better tone will pervade all mining industry, and no doubt due consideration will be given to this most important matter of rendering sideration will be given to this most important matter of rendering mines remunerative which only produce low class ores, that the business in this article of commerce may not be absorbed by our colonies and foreign countries, but that each may preserve their accustomed proportion of supply tomed proportion of supply.

AN ANTI-UNION SOCIETY OF COLLIERS.

It has for so long a time been customary to regard Unionism as a It has for so long a time been customary to regard Unionism as a perfectly chronic state of mind for colliers, ironworkers, and operatives generally to be in, that it has created much surprise to find that a society has actually been organised by a number of working men to oppose the Union and its leaders. This movement has originated in the strike of miners in connection with the Staveley Collieries, the managers of which wisely determined to conduct their affairs in their own way, without dictation or interference from the Union. This brought down upon them the direful vengeance of the said Union, which has been growing in strength in the South Yorkshire and Derbyshire district for some time. It was in this district that a good deal of the agitation with respect to the grievances of the good deal of the agitation with respect to the grievances of the miners originated. This, it will be remembered, led to the appointment of a Royal Commission, which sat last session, and examined witnesses from the men, from the Mine Inspectors, and from the employers. This seems to have invigorated a few of the men, who occupied a very prominent part in connection with the arrangement of witnesses for the men, and so forth; and when they returned to their constituents they immediately set about developing the Union and witnesses for the men, and so forth; and when they returned to their constituents they immediately set about developing the Union and strengthening their hands. They made various attempts to stir up the flagging zeal of the Staffordshire men; but the colliers in that locality had experienced quite enough of the Union when they had their strike in 1863, and hence they now declined to have anything to do with the Yorkshire men. The Union in the Yorkshire district was further strengthened by a victory which they gained over one proprietor, and they then appear to have been instigated to attempt to make their organisation felt in all the collieries of the district. The result was that the Staveley Company, who have always paid good wages, and who were generally regarded as amongst the best masters in the country, were singled out by the Union, and so a strike ensued. The men employed were turned out of their houses, but the The men employed were turned out of their houses, but the ensued. Union built huts for a portion of the men on strike, while, of course, the firm were sadly inconvenienced, owing to their being unable to proceed with their contracts. At one time the matter seemed likely to lead to a protracted and bitter strike; but suddenly a new movement was originated, showing that a considerable number of the men were well aware of the folly of the strike, and of the policy of the Union leaders, and that they did not mean to be mere passive spec-tators of the struggle, but were determined to do what they could to prevent its going on. These men have been holding meetings of late.

known such things do good? To which a chorus of voices replied, "Never." Another said he would never give his money for men to go up and down the country causing strife and misery, and for the delegates to ride about, and give out with their tongues only one side of the question. He had prospered since he left the Union, and stuck to his work, and minded his own business, and he urged every one terms upon the mischievous nature of Union principles and proceedings. These meetings, and the formation of this Anti-Union Society, must be regarded as most hopeful signs, inasmuch as they furnish reliable indications that the working classes are becoming alive to the sad losses which they have inflicted on themselves by their repeated strikes. So long as all the advice to the men proceeded from the sad losses which they have inflicted on themselves by their repeated strikes. So long as all the advice to the men proceeded from classes outside of the working men's society, it was only natural that they should suspect interested motives, and should be very chary in taking notice of the counsel given to them; but now that it comes from their own ranks—from men who have had much experience of the effects of strikes, it may more reasonably be expected that it will have a silent but powerful effect. They may rest assured that Unions, in their aggressive form, are sure to bring evil consequences in the long run, and it is to be hoped that men will before long grow wiser than te trust their best interests, and the welfare and happiness of their families, to the keeping of some ranting demagogue, who cares nothing what the consequence may be so long as he can live well at other men's expense, and can occupy the proud position of "a leader of the people."

FOREIGN MINING AND METALLURGY.

The situation of the Belgian blast-furnaces has not sensibly improved in the matter of sales, and has grown worse as regards the price of coal. It is calculated, indeed, comparing the present month with December, 1865, that the furnaces have now to pay about 5s. 6d. additional per ton produced for the coal consumed under the form of additional per ton produced for the coal consumed under the form of the coal consumed in boilers in hot-air apparatus, and when this is added the definitive additional cost in roducing pig now as compared with December, 1865, is not less than 6s. 6d. per on. When the calculation is extended to the production of iron, the additional ost involved by the dearness of coal is estimated at 15s. 3d. per ton. In presence of this serious increase in the cost of production the selling prices obtained pare experienced no sensible advance. The La Haye Collieries Company, at jegs, commenced the payment on Saturday of a second dividend for the exerties 1865-6, or 11. per share. The Hoerde Mines and Ironworks Company, will ayo on Jan. 2, 1867, a dividend at the rate of 10 per cent. for the exercise 1865-6 and 1960 per share). The New Orge Mines and Ironworks Company will pay Jan. 2, 1867, a dividend of 10 thalers per share for the exercise 1865-6. Meetags are announced as follows:—Levant du Flenu Collieries Company, Dec. 6, Brussels; and Beiglan General Company for Lighting and Heating by Gas, lee. 29, at Brussels. It appears that in its last financial year the Ougree Blast Furnaces

Company, after making large redemptions of capital, realised a rough profit of 17,4484. After making a further deduction from this amount of 10,8204, for general expenses, interest on loans, &c., the balance of 6234, was allocated as follows:—56254, was absorbed in a dividend of 10s, per share, 7554, was handed to the Council of Administration and the Commissaries as their share of the profits, and 2984, was carried forward. The two pits belonging to the company yielded during the past exercise 72,977 tons of coal, or 1926 tons more than in the preceding year. The production of coke effected by the company was 33,417 tons, which was applied to the service of the blast-furnaces. The extraction and purchase of minerals amounted during the year to 8,962 tons. Three of the blast-furnaces—one of which has been put out of blast, after a campaign extending over seven years—produced last year 29,816 tons of pig. The ironworks owned by the company proved as usual a useful auxiliary teate blast-furnaces. At the meeting of the Austro-Beiglam Metallurgical Company (the old Corphalle) 3613 out of the 6309 shares issued were represented, although no particularly important business was set down for consideration. The results of the past exercise, after providing for an important redemption of capital admitted of a dividend of 12s, per share. A shareholder enquired the opinion of the Council of Administration as to the probable future of the Ivance establishment in Austria, acquired some years ago by the company, and which has hitherto yielded only negative results. It was replied that at present the prosperity of ite Ivance Works has been checked by the difficulty experienced in reducing minerals, which are found very abundantly in the neighbourhood, by means of lignite, but researches which have been made on the subject have been rewined aiministration has the certainty of producing metal on favourable conditions, while employing lignite as a combustible; at present the company has four furnaces in blast at the Ivance Works; Company, after making large redemptions of capital, realised a rough profit of 17,448l. After making a further deduction from this amount

profession of the island ministers to the standard prediction of the internal content of the production of the island ministers to the standard prediction of the internal content of the profession of the internal content o

can and Plata, in bars, 73l.; Russian, 89l. to 91l.; old yellow copper, 53l. to 57l.; red ditto, 76l.; bronze, 72l. per ton. At Paris, English, in plates, has made 82l., and Corocro mineral 80l. per ton. The remains in about the same state, the fluctuations which have taken place in prices being very small; nevertheless, the tendency has been better. On the Dutch markets the demand has been moderate, and Banca has oscillated between 47 fls. and at 47l. fls.; at this last quotation it is reported that 1800 blocks have been recently dealt in at Rotterdam. There has been no salient affair or striking change to report in the tone of tin on the German markets. At Rotterdam, Billiton has made 48l. fls. to 18l., and peravian 68l. to 80l. per ton. At Havre, Banca has made 86l. to 87l.; Straits, 88l.; and English, 83l. per ton. At Havre, Banca has made 86l. to 87l.; Straits, 88l.; and German has also realised the same price. At Amsterdam soft lead has made 18l. to 12l. fls. to 12l. fls. to 12l. fls. at Paris, Spanish saumons have brought 20l. 12s., and French 20l. 8s. per ton. At Havre the quotation for Spanish and other lead has been 18l. fls. to 12l. fls. at Paris, Spanish saumons have brought 20l. 12s., and French 20l. 8s. per ton. At Havre the quotation for Spanish and other lead has been 18l. fls. per ton. Transactions in zinc have been extremely active on the regulating markets, and the article has been sustained at a sensible advance. At Hamburg the demand has been brisk, and from Bresiau the advices have been no less favourable; ordinary marks have easily found purchasers, and producers, who have still some parcels to sell, demand higher rates, calculating on a very active enquiry during the first few months of the new year. At Paris rough Silesian has made 22l. 12s, per ton. At Havre zinc has been quoted from 21l. 12s. to 22l. per ton.

As regards miscellaneous items, we may note that the Moselle Collieries Company proposes to make an issue of obligations. The intention is again attributed to the Prussian Gover

REPORT FROM SCOTLAND.

cash, buyers offering 53s. 104d. Malleable from is in no better posi-tion, and orders are becoming more scarce. Third and half-time is all that malleable workers get employment for; and ironfounders are not very much better off for work. Coals are in fully better de-mand for shipment, at the reduction of 1s. a ton, having this week reached 32,765 tons, while in the same week of last year they only amounted to 24,530 tons. On the authority of the President of the Miners' National Association agents are in Scotland trying to persuade Miners' National Association agents are in Scotland trying to persuade colliers to accept of employment at the mines in Lancashire. The President, Mr. M'Donald, warns the men in an address "not to be deceived," but to "defeat the object of the employers by any means now available." In an "N.B." the same authority adds—"Rumour has it that a man has left Armadale to examine the pits and bring back a report thereon. For the work he is to receive six pieces of gold, and more if he 'puffs' well. It may be right to say that the party who has gone on that mission is a native of Wales, but retails beer in the village of Armadale. This the men must know."

The number of Cornish miners continues to increase, and, judging from those we had an expectative of visiting they are a till sale.

from those we had an opportunity of visiting, they are a tall, able-bodied staff of men. They professed to be pleased with their change, and if there were not truth in the profession we expect the numbers would speedily diminish.

would speedily diminish.

The manufacture of mineral oil is nearly at a stand, and although this slackness has been prolonged for some time, there is not yet the appearance of the resumption of business. We regret that in our letter of Nov. 24 a "report" regarding the Bathgate Oil Works of Messrs. Young and Co. was transmitted, as the secretary to the company informs us that it was incorrect, and we, consequently, withdraw the entire statement. draw the entire statement.

The shipbuilding trade on the Clyde continues dull, and several firms are fluishing off their last contract. Last month, however, several steamers were contracted for, principally by Clyde owners, but builders are by no means even moderately engaged. The number of vessels launched from the yards on the Clyde during the month and eleven months ending Nov. 30 was as follows, as compared with two previous years:—

Vesselv

0	mpared with tw						esse	Tons.	
	Month ending	Nov. 30,	1866.			 	 14	 12,300	
	**	99	1865.			 	 19	 15,730	
	**	**	1864.			 	 18	 19,760	
	Eleven months	ending	Nov.	30,	1866	 	 176	 108,000	
	**		**		1865	 	 237	 142,800	
	11				1864	 	 200	 166,050	

cent. Yet the men and their leaders have resolutely opposed this very sensible proposition, which is, although very likely sufficiently imperfect, at any rate, a step in the right direction.

step in the right direction.

On Monday, at the Middlesbro' Police Court, Matthew Lalley, a puddler on strike, was charged with intimidating and using threatening language towards another puddler, named Jos. Blewitt, employed at Fox, Head, and Co.'s works. After a long and patient hearing of the case by the Bench, Lailey was committed to prison for one calender month, with hard labour.

The alkali and chemical trades of the Tyne are extremely brisk,

and numerous extensions are in progress, new works are also pro-jected, some have commenced to excavate and build. This is ex-tremely fortunate, as these works will absorb some of the men thrown out by the dearth of employment at the iron and engine works, and

tremely fortunate, as these works will absorb some of the men thrown out by the dearth of employment at the iron and engine works, and the result, we believe, will show that a less number of men will be out of work than is generally looked for.

The serious falling off in the trade of Sunderland during the past year has caused some apprehension at that hitherto prosperous and rising port. It is alway very unpleasant to witness a regular reduction of revenue, with at the same time increasing burdens and obligations. The result, however, will be beneficial, if the agitation on this subject leads to measures, which it is certain to do, calculated to remove the obstruction to progress, and thus turn the tide of affairs. The rapid progress of the Tyne improvements has drawn numbers of large ships there, and for the time thrown Sunderland into the shade. The latter port possesses magnificent docks, which are comparatively useless at present owing to the want of a good entrance from the sea, and also owing to the want of alrect inland railway communication. Sunderland at present is little more than a coal port, the Tyne having almost exclusive possession of the export and import trades. When the immense chemical and manufacturing trade of the Tyne is taken into account, the difference between the position of the Tyne and the Wear becomes more apparent. There is no doubt that, from the position of Sunderland, efficient railway communication would soon effect a change for the better, and the port would again begin to progress as formerly. But a proper sea entrance, with good depth of water, ought also to be provided without delay, and in the present prosperous state of the chemical trade, it is surprising that no works of this kind are springing up on the Wear.

A general monthly meeting of the members of the North of England Institute of Mining Engineers will be held to-day, at Neville Hall, Newcastle, when the following important business is to be brought forward:—

1.—A paper will be read by Mr. W. Lishman "On a Syst

brought forward:—

1.—A paper will be read by Mr. W. Lishman "On a System of Working Coal on the Long Wall Plan."

2.—Mr. A. L. Stephenson's paper "On Certain Experiments with M. Guibal's Fan Ventilator."

3.—Mr. Daglish's paper "On Broadbent's Safety Cage."

4.—Mr. Cochrane's paper "On Harrison's Cast-Iron Boiler" will be open for discussion.

A full report of the proceedings will be given in particular.

A full report of the proceedings will be given in next week's Journal.

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PRESENTATION TO MR. T. J. BEWICK, M.I.C.E., &c.—A very handsome and substantial presentation has been made to Mr. T. J. Bewick, a gentleman highly respected and well-known in the extensive mining districts of Allendale and Weardale, as well as in other parts of the North of England. The occasion was the retirement of Mr. Bewick from the office of engineer to the mines of Mr. W. B. Beaumont, M.P., after a fathful service of 20 years. The presentation consisted of a very handsome silver tea and coffee service, with a purse of 400L, from Mr. Beaumont, and a magnificent epergue, claret jug, and a pair of fruit dishes, all in silver, from the officials, workmen, &c., connected with the mines, and also subscribed for by various of Mr. Bewick's friends, who were equally anxious to show their appreciation of his many sterling qualities. The presentation took place in the Miners' Room, in Allenheads, Mr. T. Sopwith, M.A., F. R.S., being unanimously voted to the chair, and there was also present a large attendance of those connected with the mines, many of the ladies of the district being also present, and evincing the greatest interest in the proceedings.—The Chairman, at considerable length, referred to the high character and professional abilities of Mr. Bewick, concluding by presenting him with the gifts, to which 1000 persons had subscribed.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

DEC. 6.—There is no change to report in the state of the Iron Trade. The demand continues on a small scale. The lowness of stocks compels orders to be sent from week to week, but the number in advance is very small, and little more than half-time prevails throughout South Staffordshire, whilst in the northern district the men are far from being fully employed. The Hardware Trades are also, as a rule, dull, and no general improvement is likely for a month or two. The demand for punched steel moulds for gun-barrels is rapidly increasing, and the process is being freely adopted in France, Belgium, and other parts of the Continent.

creasing, and the process is being freely adopted in France, Beigium, and other parts of the Continent.

The one great topic in Staffordshire, and especially in South Staffordshire, for the last week, has been the Queen's visit to unveil the statue of the late Prince Consort. The event has been described at length in the papers, and nothing could exaggerate the earnest efforts, alike of the authorities and of private individuals, to give Her Majesty a loyal and hearty welcome. The idea of constructing the first arch under which the Queen was to pass of coal, ornamented by miners' tools, was a most happy one. It emanated from Mr. Rupert Kettle, County Court Judge of Worcestershire, and an amateur artist of considerable skill, and Mr. Hartley, Chairman for the year of the South Staffordshire Ironmasters' Association, and also a member of the Commission on the Coal Mines of the country. Mr. J. P. Baker, Her Majesty's Inspector of Mines, superintended the erection; and the huge blocks of which it and a pyramid adjoining were composed were supplied by Mr. F. Smith, agent to the Earl of Dudley, from the thick coal pits of his lordship; they were afterwards given to the South Staffordshire Hospital. The colliers in Lord Dudley's mines vied with each other in producing the largest blocks, and some were upwards of 3 tons in weight. An arch, ornamented with hardwares, also very appropriately typified another branch of the industry of the place.

One further remark on this visit is suitable to the columns of the

One further remark on this visit is suitable to the columns of the Mining Journal. The London narrators of the event appear to have framed, if not written, the introductions to the accounts they furnish in town, for they generally speak as if the statue stood in the centre of a region covered with cinder mounds and spoil banks, and under an atmosphere perpetually darkened with volumes of smoke. Punch says of the monument—

"Tis well his statue should stand high, in this Black Country's core, Looking across these cindery wastes, scamed, scathed, and ashy-hoar; Where the eviscerated earth knows seasons' change no more, Where the only seed is gold, the only harvest coal and ore."

Now, however well this might have been, it is not so. Wolverhampton is on the outer edge of the Black Country, and the mining district. It stands on the summit of a saddle-back hill, right over which the Queen passed, and which divides the waters of the Severn from those of the Trent. North and east the mining and iron-One further remark on this visit is suitable to the columns of the

which the Queen passed, and which divides the waters of the Severn from those of the Trent. North and east the mining and iron-making district extends; south and west it looks, as a local paper states, "on green fields and waving woods, and the soft blue of distant hills; whilst its outskirts on these sides are adorned with gardens and shrubberies, and all the beauties which nature yields." It is in this direction the statue looks, and the very point where it stands has certainly not more smoke than at Westminster Abbey, whilst 200 reads on wave weathing in a fixed has read the Seventian. whilst 200 yards away vegetation is as fresh as round the Serpentine. The fact is that along the eminence on which the town stands runs a great fault, which to the south-west has depressed the coal-bearing strata below the miner's present reach, or, on the other side, raised them to a position rendering them extraordinarily profitable. No doubt these measures stretch across to the Wrekin, in Shropshire, which is visible from near the statue, but as yet they have not been reached by the mining adventurer.

Several references have been lately made to a revised co.le of Special Colliery Rules for South Staffordshire and East Worcestershire, which Mr. Baker, the Inspector for the district, has prepared, and which has been submitted to the consideration of the trade. A desire was expressed at a meeting of the coal trade and the mine agents that action as to the proposed alterations should be deferred for six months, to await the report of Mr. Ayrton's Committee; but the Secretary of State presses for one of the proposed alterations being considered at once. The general tendency of the proposed amendments is to render personal responsibility more definite, and to fix a greater amount of responsibility upon the higher officers of a mine, from which they can only be relieved by distinctly deputing it to others. The particular rule, the alteration in which is pressed, is in the existing rules the 20th. The amended rule proposed makes the obligation for the charter-master or his deputy to examine the workings every morning distinctly imperative in all cases, and it im-poses on the same parties, in clearer terms than under the old rules, the duty of providing sufficient timber for the roofs, and causing all the workings to be properly supported with timber, or otherwise made secure, and his obligations to see that all under him take precautions against danger are more clearly defined and are extended; and it is provided that where no chartermaster is appointed, these rules shall be binding on the manager or his deputy. Mr. Baker has assented to the re-introducing of words releasing the charter-master where another person is appointed for the purpose of seeing to the timber-ing, &c.; and it is understood that no further objection will be taken

ing, &c.; and it is understood that he further objection will be taken to the alterations in the rule.

Several fatal colliery accidents have occurred lately. George Downing, the chief chartermaster at the Silverdale Colliery, in North Staffordshire, was killed a few days ago by a quantity of "boss" falling upon him as he was assisting to put down a turntable in the colliery.—A youth, named John Dadley, was killed at the North Staffordshire Colliery as he was descending the shaft by falling to the bottom, as he was endeavouring to get out of the cage too hurriedly into an inset. In both cases verdicts of "Accidental Death" were returned by the Coroner's jury.

too hurriedly into an inset. In both cases verdicts of "Accidental Death" were returned by the Coroner's jury.

A boy was killed on Saturday morning by a fall of earth at a collery at ôld Hill, belonging to the British Iron Company. It appeared in course of the enquiry that some men had gone to work before the pit was examined, and the Coroner said he should inform the Mine Inspector of the fact.—A miner, 5s years old, lost his life at the Tividiale Hall Colliery, near Dadley, by a fall of a ton of coal, owing to his neglect to secure it. Mr. Baker (the Government Inspector), who was at the inquest, urged that a system of propping the coal should be now strictly enforced.

REPORT FROM DERBYSHIRE AND YORKSHIRE.

REPORT FROM DERBYSHIRE AND YORKSHIRE.

DEC. 6.—There is little alteration to note in the state of affairs in Derbyshire, where a majority of the colliers appear determined to sever the good relationship which has hitherto existed between them and their employers. The Union hands, who have left their comfortable houses in Staveley, are now being located in huts and tents in the neighbourhood of Whittington, so that the prospects of the families during the inclement season are far from cheering. Amongst the singular features connected with the dispute is the fact that a considerable number of the men opposed to the Union have formed themselves into a league in opposition to it, and, from a small beginning, a respectable body has been formed. The coalmasters appear determined not to give way in the least, and, although aware of the sacrifices they will have to make, seem prepared for the worst, as they will not allow of dictation on the part of those who are in no way connected with them. The trade of the district continues active, there being a brisk demand for coal for the London market, whilst the market for iron continues in about the same state as it has been for a considerable time past, contrasting favourably with almost any other part of the country. The experiments which took place on Monday, on board the Thundever, in which the Pallister chilled shot was brought into contact with the heavy amour-plates manufactured in Sheffield, have proved so far satisfactory that the Admiralty have ordered the two great firms of John Brown and Co. and Cammell and Co., both limited companies, to manufacture some of the strongest negles possible, to show whether they are canable of Admiratty have ordered the two great firms of John Brown and Co. and Cammell and Co., both limited companies, to manufacture some of the strongest plates possible, to show whether they are capable of resisting heavy projectiles. It is expected that plates far superior to any yet produced will be brought out, and it is questionable whether ordinary ordnance of the heaviest character will be able to "leave their mark" on them. Messrs. Cammell and Co. have received instructions from the War Office to manufacture 20 iron shields for the sea-face of the expensive fortifications of Malta and Gibralta.

structions from the War Office to manufacture 20 iron shields for the sea-face of the extensive fortifications of Malta and Gibralta. The prospects of the makers of heavy plates are now much brighter than they have been for some time, as the heads of the Admiralty and the War Office appear determined to put our foreign as well as our home coasts in an efficient state, so far as defence is concerned. The general trade of Sheffield continues dull, and the briskness peculiar to the month of December will show a marked falling off, so that the "bulling" before Christmas will be a considerable failure. There is no alteration in the state of the iron trade in South Yorkshire. At the works at Milton, the puddlers, after being out for about a fortnight, have resumed work, having given way to their employers. shire. At the works at Milton, the puddlers, after being out for about a fortnight, have resumed work, having given way to their employers, and agreed to dispense with the services of a boy, who has hitherto been paid by the firm. There are few large orders in hand at any of the firms, the only business doing being in hoops, bars, and sheets, for which the demand is very limited. The Coal Trade continues active, and a heavy tonnage is being forwarded by the Great Northern to London and the South. On Monday it was made known that a general advance at all the collieries had been agreed upon. The rise in price varies from 6d, to 10d, per ton, the latter price being fixed for home consumption. for home consumption.

On Saturday the Derbyshire coalowners were informed that from that date the rates for coal in owners' wagons, on the London and North-Western, North London, Midland, Great Western, Great North

North-Western, North London, Midland, Great Western, Great North-ern, and Great Eastern Railways will be advanced 6d. per ton. On Monday evening a handsome testimonial, in the shape of a plated tea and coffee service, and solid silver tankard, bearing an appropriate inscription, was presented to Mr. Steers, for 22 years manager of the Strafford Collieries, and now about to take the management of a colliery at Wakefield. The presentation was made by Dr. Carr, one of the proprietors of the collieries, who eulogised Mr. Steers, not only as an old and faithful servant the was ori-ginally a working miner), but as a gentleman possessing much practical know-ledge in connection with mines and mining. The workmen presented Mr. Steers with a beautiful gold watch and massive Albert guard in token of esteem.

REPORT FROM MONMOUTH AND SOUTH WALES.

DEC. 6 .- There has been no change of any importance in the South Wales Iron Trade since last report. Two or three small orders for immediate delivery have been placed by home consumers, who are represented to have scarcely any stocks on hand, whilst their require-ments are heavy. The tone of the enquiries shows this to be the case, immediate delivery have been placed by home consumers, who are represented to have searcely any stocks on hand, whilst their requirements are heavy. The tone of the enquiries shows this to be the case, and, therefore, it is hoped by many parties that, as confidence is being gradually restored, makers will not have to wait till next spring, as predicted by some, before a reaction for the better takes place in the trade generally. At the Taff Vale Ironworks, near Pontypridd, there has been a considerable reduction in the number of hands employed, and a similar step has been taken at several of the other works. At Merthyr nocices of a reduction in the rate of wages were posted up at all the works on Saturday last, Dec. 1, but the ironmasters of Monmouthshire have not yet taken that course. This may seem strange, but on previous occasions, when notices have been given, the Monmouthshire and Glamorganshire masters have not acted in unity, one division of the district being generally one month in advance of the other. When the notice was given at all the works last July for a reduction, it was owing to the refusal of some of the Glamorganshire ironmasters to carry the notice out that it was withdrawn. This circumstance proves one great fact—that there does not exist among the masters a combination as to how the men of the district shall be paid, and will show the workmen that those employers who have taken the step have been compelled to do so from dire necessity, and to enable them to keep their works employed. The new proprietors of the Aberaman Ironworks and Estate (Powell's Duffryn Steam Coal Company) will not enter into possession of the whole of the concern before the beginning of the year. The works, although small, are compact, and capable of much extension. The demand for rails is not quite so good, and the enquiry for bars has slightly decreased. For plates there has been a slight movement for the better, but not of any moment; and two or three of the works are fairly employed upon common descriptions of ma

the ports of Cardiff and Newport for shipment to the foreign mar-kets since last report; but, in consequence of the long-continued contrary winds, several vessels are lying windbound, and export operations consequently suffer. Most of the iron exported has been for the Northern and Southern States of America, from whence orders continue to come in steadily. It is expected, however, that after Christmas there will be a falling off in the demand from this quarter but no doubt the spring delivery contracts from the Russian and Canadian market, will fill up the gap, and it is hoped ere long some of Canadian market, will fill up the gap, and its noped ere long some of the expected orders on Indian account will make their appearance. The Continental demand is of an average character, and in transactions with the other foreign markets there is no change to note. In pig-iron purchases are made sparingly, except for the Blaenavon and other cold-blast makes of repute, which meet with a fair enquiry. Tin-plate makers complain of the falling off in orders, and some of the most experienced in the trade consider that the creetion so many new works in the district will have the effect of again producing the evils consequent upon over-production. Welsh steam coal continues to be largely purchased for exportation and on inland account, whilst business in the house coal trade is seasonably active.

ing some time the men made a fresh contract with William Richards, the overman, to work at 4s. 8d. the turn, the company to find powder. When the pay came the complainants were only paid at the rate of 1s. per yard, which amounted to 2s. 4d. per turn. When spoken to, Messrs, Brain said they had given no orders for the complainants to work by the day, but promised if they could not earn 4s. 6d. the turn they should get some allowance. The men said they knew nothing of that agreement, as the overman had agreed with them to work by the day, and had supplied them with powder. The magistrates held that the defendants were responsible for their overman's contract, and made an order for the wages to be paid, with costs.

A dreadful explosion of gas took place at the Caraway Colliery, Llanelly, on Friday. It appears that about 60 men were engaged in the work-

that the defendants were responsible for their overman's contract, and made an order for the wages to be paid, with costs.

A dreadful explosion of gas took place at the Caraway Colliery, Llanelly, on Friday. It appears that about 60 men were engaged in the workings, when suddenly the place was enveloped in fiames, which swept before it doors, trams, horses, and everything; it came in contact with. We are sorry to add that some of the men were baddy burst. The cause is not yet known, but a searching investigation will be made, and if the result of carelessness or culpable wilfulness, it is hoped that the guilty parties will be brought to justice.

In re Moore and Thomas, colliery proprietors, Cadoxton-juxta-Neath, who came up for their orders of discharge on Tuesday, at the Bristol Bankruptcy Court, Mr. A. Brittan stated, on behalf of the assigness, that they offered no opposition. Mr. Edilin, who appeared for the bankrupts, said that on the part of Moore he had handed to the assigness certain shares which, prior to the bankruptey, he had given to his sister, who had made large advances. The bankrupt voluntarily gave those shares to his sister, and they had been as voluntarily surrendered by the lady to the estate. Mr. A. Brittan said the shares had been frankly and honourably given up. His Honour granted the bankrupts their order of discharge, and hoped they would be more prosperous in future.

The following case, Filton v. Marshall, in connection with the Glamorganshire Iron and Coal Company, came on for hearing before the Court of Common Pleas, on Saturday. The action was brought to recover 5000L, which plaintiff alleged defendant agreed to pay him upon his bringing out a joint-stock company, for the purpose of buying a coal mine in Glamorganshire, of which the defendant was possessed. The plaintiff formerly carried on business as an agent in election contests, &c. In 1864, he was introduced to the defendant, who had become possessed of the Van Colliery, Glamorganshire, for a term of nearly 80 years, for the

The arrivals at Swansea include—the Paison, from Requegada, the 150 tons of from ore, for Mr. Stadler; the Flanenr, from St. Malo, with 260 set of from core, for Mr. Rowlands; the Etolie de Mer, from Camillas, with 160 as of zinc ore to order; and the Antonia, from Redan, with 100 tons of from a for I. Walters. with 150 tons of iro tons of zinc ore, for tons of zinc ore to c ore, for J. Walters.

FOREST OF DEAN.

As stated last week, the Coal Trade is brisk, and there is every prospect of a good winter trade: 12,000 tons per month are raised by the Crump Meadow Company, chiefly disposed of in the towns of Hereford, Gloucester, Stroud, Cheltenham, and Bridgewater. The second quality realises 8s. 6d. per ton at the pits. This is a really a useful coal for home purposes. The better qualities, the rocky, obtain a somewhat higher price. Some good coal is raised at Mr. Crawshay's Lightmoor Collieries, at which works some 500 hands are employed. The veins of coal worked here give a good average vield. They are the Rocky, the Lowery, and the Coleford High Delf.

are employed. The veins of coal worked here give a good average yield. They are the Rocky, the Lowery, and the Coleford High Delf. Farmers' Folly and Windmill Pit Colliery, offered a fortnight since for sale in London, is again in the market by private treaty. These pits are situate near Coleford. It is estimated that there remains in connection with these gales 142 acres of unworked coal, of the Coleford High Delf vein. At the present time it is profitably worked, but more capital is required to properly develope its yield. Should the Ross and Monmouth Railway Company obtain their Act in the next Parliament the line will pass near these works. A great drawback now exists in their having no railway communication.

The intimation with regard to the men employed at the Soudley

next Parliament the line will pass near these works. A great drawback now exists in their having no railway communication.

The intimation with regard to the men employed at the Soudley Furnaces being under notice was confirmed on Saturday by their discharge. While bearing in mind the distressing effect the discharge of some 50 men must occasion, more especially at this season of the year, Intensified Just now by whole days of pouring rain, giving all things outward the most gloomy aspect, it is pleasing that this stoppage is not attributable to a scarelty of trade, the firm having an abindance of orders now on hand, so much so, that had the furnaces not been blown-out they would have lasted six months, the cause of the suspension is purely owing to great defects in the furnaces, which, although originally well built, have become rendered unfit for use. The average make per month has been about 580 tons, of numbers ranging from 3 to 6. The latest price for the inferior quality, at the works, was 34, 10s. to 34, 15s., The greater portion made here has been Nos. 3 and 4, disposed of to home buyers in South Wales and Staffordshire. Nos. 3 and 4, disposed of to home buyers in South Wales and Staffordshire. Nos. 3 and 4, disposed of to home buyers in South Wales and Staffordshire. At Mr. Henry Crawshay's Cinderford Furnaces there is a large quantity of pigiron made. There are four furnaces, three only of which are in work. At No. 4 some 800 tons of best quality are made per month, the portion of ore being obtained from the Shakemantic and Buckshaft Mine Pits, belonging to Mr. Crawshay. This is a very rich ore, so much so that an inferior kind, from the Bream Side, in the proportion of one-third, is used with it. Great expense is incurred in the transit of this mineral, it having first to be hauled in wagons several miles, and thence per rail from Lydney to Builo Pill, and up the Cinderford branch. The other two furnaces forge about 800 tons each per month. This from is chiefy sent to Wales, Messs. Banks and Co., of

TITANIC IRON ORE.—Reference was made in the *Mining Journal* of Nov. 10 to the discovery of a cheap process for smelting titanic iron ore, and, in reply to enquiries, it may be stated that application iron ore, and, in reply to enquiries, it may be stated that application for a patent was made, and provisional protection granted, for the invention on Nov. 10 to Messrs. George Crawshay and John Thomas, both of Gateshead-on-Tyne. Mr. John Thomas has bestowed a large amount of care with a view to perfecting the invention, and he has now so far succeeded that it has been decided forthwith to erect large smelting-works at the Bay of St. Paul's, Lower Canada. The deposit of titaniferous iron ore which it is proposed to work is situated within half a mile of the River Gofie, a tributary stream of the St. Lawrence, and is considered by Sir William Logan, whose position as chief of the Government Geological Survey of the Province gives weight to his opinion, to be the largest yet known. The position as chief of the dovernment decorated and very of the Trevince gives weight to his opinion, to be the largest yet known. The merit claimed for the process is, that not only does it yield an iron of an excellent steely texture, but that even the scoria is so rich in titanium as to be of considerable commercial value. The owner of the deposit proposes to commence operations by undertaking the re-manufacture of a large quantity of old rails, which he intends to top with a surface of the titaniterous metal. The details of the process will be given in a few weeks.

THE EXPORT COAL TRADE.—The exports of coal from the United Kingdom continue to steadily increase. Thus, they amounted in October to 880,602 tons, as compared with 814,794 tons in October, 1865, and 752,078 tons in October, 1864. In these totals France figured for 140,940 tons, 131,865 tons, and 100,723 tons respectively. In the ten months ending Oct. 31 this year, the aggregate exports of coal from the United Kingdom were 8,467,101 tons, as compared with 7,753,007 tons in 1865, and 7,367,993 tons in 1864 (corresponding pe-7,753,007 tons in 1865, and 7,367,993 tons in 1864 (corresponding periods). France is still our largest customer for coal, having taken 1,522,736 tons to October 31 this year, as compared with 1,309,048 tons to the corresponding date of 1865, and 1,165,915 tons to the corresponding date of 1864. The exports of British coal have increased more or less considerably this year to Russia, Sweden, Denmark, the Hanse Towns, Holland, France, Spain, Italy, Brazil, and British India; they have, however, decreased to the United States of America. The value of the coal exported in October was 458,7144, as compared with 399,6474. in October, 1865, and 358,4164 in October, 1864. In the ten months ending Oct. 31 this year, we exported coal to the agthe ten months ending Oct. 31 this year, we exported coal to the aggregate value of 4,317,354*l*., as compared with 3,705,871*l*. in 1865, and 3,458,628*l*. in 1864 (corresponding periods). In these last totals France figures for 711,923*l*., 588,862*l*., and 496,446*l*. respectively.

THE RECENT DISCOVERY OF COAL IN SHROPSHIRE.—The works At the Liantrissant Petty Sessions, Messrs, Brain, colliery proinconnexion with the New Stafford coal pits, near Shiffnal, the successful sinkprietors, were summoned by David Jenkins, Liewellyn Richards, David
Richards, and John Richards for non-payment of wages. It appeared that the
comparisms worked in a coal mine at Longerfall, and had entered into a contract with the Messrs. Brain to drive a heading at 11s. per yard. After workper acre, It has hitherto been an article of belief among geologists that the line

shown upon the official geological maps as bounding the Shropshire coal field of the east, and representing what is known as the "Great Shropshire Fault," are the extreme limit of the bed on that side, and that beyond it, as far as the South Staffordshire field, there is an entire absence of coal. The New Stafford Pits are sunk at a point some distance to the east of the "fault," and the result of the experiment having demonstrated the fallacy of the geological dogma, the question is now being raised as to whether coal may not be found an sunk in the reputed "dead ground," a little to the south of the New Stafford Mine, and if the result prove equally successful there is a prospect of a considerable change taking place in the aspect of East Shropshire, at present a purely agricultural district.—Times.

MINING, METALS, AND MINERALS-PATENT MATTERS, By M. HENRY, Memb. Soc. Arts, Assoc. Soc. Eng.

By M. HENRY, Memb. Soc. Arts, Assoc. Soc. Eng.

It is singular that, numerous as are the patents relating to the metallurgical arts, comparatively little attention appears to have been paid to a certain class of metals, which, though some of their useful qualities are known, do not appear to have been utilised and applied in the useful arts to the extent of which they might, perhaps, be found capable, if their natures and properties were explored to a fuller extent. Indeed, it seems singular, taking even only one among the numerous applications of metals—their utilisation as conductors. tuller extent. Indeed, it seems singular, taking even only one among the numerous applications of metals—their utilisation as conductors for electric and galvanic action—that, while so much consideration has been applied to the insulating materials, the manufacturing arrangements and the mechanical manipulating appliances connected with electro-telegraphy, no large amount of attention appears to have been directed—at least, judging from the fair test of the patent list—to the possibilities of rendering metallic alloys and compounds capable of conduction. Probably in the broad field of the industrial arts there is yet great scope for researches into the capabilities of metals hitherto not largely applied. It may be observed that an application for patent has been recently made by Crockford, of Holywell, for the manufacture of spelter, and the utilisation of its products; also for obtaining products from materials produced in coating from with zinc.—Newton but applied for a patent (as a communication from Tarr, of Chicago), for making cast-atecl rallway-wheels and other metal castings.—Tomain and Hooke, for the manufacture of gas, and the preparation of fuel.—Petitylean, for a new method of combustion; and Bateman, for pumps and fire-engines.

Among sealed Patents are the following:—GEDGE, metal boxes, tins, or cases,—Newton, boring drilling, and grooving metals; also, Newton, forming collars on metal axles, &c.

Among Patents which have been maintained by the recent pay-nent of the additional duties, may be cited—HARRISON, for cutting coals, mine-als, and stones.—J. WRIGHT, for furnaces, fire-grates, and fire-bars; and two

Any opposition intended to the following six Notices to Proceed Any opposition interact to the Assertion and Woodman, to the two theorethe is the inst.:—Stark and Woodman, to the overs.—Newton, consuming furnace-smoke.—MITCHELL, shapriging metals.—Bentall, shapriging entals.—Bentall, shapring save.—Fisher, moulds for the decals.—Bonneville (communication from Hognoul), pumping or verticals.—Bonneville (communication from Hognoul).

tort covers.—Newton, consuming furnace-smoke.—Mitchill. Ashaping and forging metals.—Bentall. shappening saws.—Fisher, moulds for casting metals.—Bonneyill. (communication from Hognoul), pumping or ventilating apparatus.

Any opposition intended to the following five Notices to Proceed must be entered on or before the 24th Inst.:—CLARK, puddiing-furnaces.—M'Beath, distilling shale, coal, and other bitumens.—Haseltins, producing designs and devices on marble and other calcareous stones.—Haseltins, producing designs and devices on marble and other calcareous stones.—Haseltins, drilling rocks.—Woonbruty, printing from photo metal intaglios.

May it be submitted that the salutary rule once adopted for the exclusion of special designations from titles to applications for patents might be maintained with advantage. Reference is made to this subject because a recent patent with such designation from titles to applications for penent sumewhat uncertain condition of the copyright laws and equity rights in tradinames and titles, the introduction of such distinctive names into patents might lead to complication in matters of this description.—CENNINGHAM has gelified an apparatus suitable for drilling and ornamenting metal, in which a shaft is driven by a pulley, having on its axis a drilling or cetting tool of the shaft is a lever-handle, for raising and depressing it. The shaft is guided by an adjustable casting with a projection on which thelever is fixed. The apparatus may be combined with the bed-plate of a lathe by a bar or slide, so that the drill may be varied in position on a table capable of rotary and angular adjustance; the driving-pulley may be fixed on a shaft between the lathehead and back-centre.—Pools and Sparnow propose to collect and utilise the waste graces of blast-furnaces. According to one modification, they use a curveichamber surrounding a portion of the tunnel-head, with doors at each end, and pretangular vertical tubes at bottom, one hetween each feed-opening, and these extend downwards below the

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WANTED, a FEW GENTLEMEN to JOIN in FORMING a LIMITED LIABILITY COMPANY, to WORK an EXTENSIVE IRON MINE. The mine is properly laid open. The ores are of superior quality, and can be worked at a great profit at once.—Full particulars can be obtained by applying to "J. M." MINING JOURNAL office, 26, Fleet-street, London, E.C. Dated November 28, 1866.

ANTED, a GOOD SECONDHAND LOCOMOTIVE TANK ENGINE, suitable for COLLIERY WORK.—Address, stating diameter of cylinder, length of stroke, number and diameter of wheels, &c., with lowest price and date of make, to "Carbon," Box 5, Post-office, St. Helen's, Lancashire.

WANTED, a NEW or SECOND-HAND HORIZONTAL STEAM ENGINE, with two cylinders, about 12 in. diameter, and 20 to 24 in. stroke. Also, BOILER for same, about 20 to 30 horse power. The whole complete, and in perfect working order.—Full particulars and lowest cash price to Messrs. Kenway and Son, Neath, Glamorganshire.

LANFAIR GREEN AND BLUE SLATE QUARRY.— Manager, T. HARVEY, Esq.—TO BE SOLD, FIFTY SHARES at a very considerable discount.—Address, "N. K. H.," MINING JOURNAL office, 26, Fleet-street, London, E.C.

TO CAPITALISTS.—ON SALE, FORTY SHARES of MINING COMPANY (LIMITED).—For particulars, address "G. 53," Post-office, Manchester.

TRUCKS TO LET.—FORTY 7-ton NARROW GAUGE TRUCKS TO BE LET, with immediate possession. For further parti-culars, apply to HENRY BAKER, Esq., Secretary to the Western Wagon Company (Limited).—Bridgewater, Nov. 13, 1866.

The Directors of the National Provincial Bank of England hereby give notice that a HALF YEARLY DIVIDEND at the rate of Eight PER CENT. PER ANNUM, and a HALF-YEARLY BONUS of SEVEN PER CENT., will be PAYABLE on the company's stock on and after the 10th day of January next, when the dividend and bonus warrants may be obtained at the company's office, No. 112, Bishopsgate-street (corner of Threadneedle-street), or at the different branches.

ferent branches.

The Transfer-books will be closed on and after Saturday, the 8th inst., until the dividend and bonus become payable.

A. ROBERTSON, Agent and Manager.
112, Bishopsgate-street, London, Dec. 4, 1866.

CARBERRY MINING COMPANY (LIMITED).—The Liquidators of the Carberry Mining Company (Limited) are PREPARED to ENTER into NEGOTIATIONS for the DISPOSAL of the company's mines, consisting of the Gurtavallig Copper Mine sett, situate on the shores of Bantry Bay, county of Cork. These mines are the nearest in point of position to the celebrated Berehaven Mines, and offer the strongest inducements for the judicious investment of capital.
Full particulars may be obtained by addressing the Liquidators of the Carberry Mining Company (Limited), 29, Westmoreland-street, Dublin.

NION HILL SILVER COMPANY (LIMITED).—Subscribers are respectfully requested to PAY in their DEPOSITS to the London and County Eank, 21, Lombard-street, or any of its branches, on or before WED-NESDAY next, the 12th inst., when the allotment will be made.

Prospectuses will be forwarded on application at the company's offices, 37, Moorgate-street.

CHAS. W. ROE, Secretary.

Moorgate-street.

PONTGIBAUD SILVER-LEAD MINING AND SMELTING COMPANY.—Notice is hereby given, that at the ANNUAL GENERAL MEETING, held at Paris, on the 30th uit., the DIVIDEND for the year 1855-66 was fixed at THIRTY FRANCS PER SHARE. The sum of 10 francs per share was paid on account of the same on the 20th of June last, and the balance of 20 francs per share will be paid in exchange for the fifth dividend coupon on and after the 5th day of December inst., at the office of the company, No. 23, rue Richer, Paris; or at the London Agency, No. 6, Queen-street-place.

The payments made in England for such balance of dividend will, after allowing for French tax and exchange, be at the rate of 15s. 8d. per share, subject to the deduction of income tax.

JOHN TAYLOR AND SONS.
London Agency, 6, Queen-street-place, E.C., Dec. 3, 1866.

THE HOT-AIR ENGINE COMPANY (LIMITED).
Incorporated under the Companies Act, 1862.
Capital £15,000, in 15,000 shares of £10 each. Deposit, £1 per share on application, and £1 per share on allotment.
Subsequent calls not to exceed £2 per share, nor to be made at intervals of less than three months.
[Should no allotment be made, the £1 paid on application will be returned.
SECRETARY—James D. Churchill.

TEMPORARY OFFICES,-63, KING WILLIAM STREET, LONDON, E.C.

TEMPORARY OFFICES,—63, KING WILLIAM STREET, LONDON, E.C.

This company is formed for the purpose of purchasing the patents of the hotal'r engine, which is so extensively used in the United States, and for introducing and manufacturing it for general use in Great Britain and Ireland.

The advantages of this invention over the steam-engine are—
1.—There is no boiler; therefore no water required, and space is thereby saved—the power being obtained by the expansion of compressed air, and the gases disengaged by combustion.

2.—The utter impossibility of explosion.

3.—As the fire is enclosed in an air-tight furnace, there is no danger of ignition or explosion, in proof of which insurance companies do not charge increased premiums where these engines are used.

4.—Great economy in the working expenses. No engineer is required. A one-horse power nominal, worked in Loudon, with coals at 30s, per ton, coets, in-cluding oil, &c., .5s, per week of 60 working hours, or 1d. per horse power per hour.

5.—No preparatiot is necessary for its erection, as it stands on its own frame. A one-horse power requires space of about 5 feet square; a common stove pipe, leading into a chimney, its all the draught arrangement required. It is self-contained, simple in construction, and not liable to get out of repair.

Experience shows that the demand for small-power engines is enormous, both at home and in the colonies; for instance, for printing, turning, sawing, pumping, hoisting, ventilators, sewing machinery, &c.

These engines can be used where it would be impossible, dangerous, or unpleasant to have a steam-engine.

The company have made an arrangement to acquire the sole and exclusive

These engines can be used where it would be impossible, dangerous, or unpleasant to have a steam-engine.

The company have made an arrangement to acquire the sole and exclusive right of making, selling, and using hot-air engines constructed under various patents, and all future improvements the vendors may make.

Applications for shares, prospectuses, and any further information, to be made to the Secretary, at the offices, where an order may be obtained to see the machine in full work.

to the Secretary, at the offices, where an order may be obtained to see the machine in full work.

12, Red Lion-court, Fleet-street, London, Aug. 16, 1866.—GENTLEMEN: In reply to your enquiries regarding the 1-horse power hot-air engine, I beg to state that I have had it in constant work for the last nine months driving two lathes, one planing machine, a small circular saw, &c. The cost of working, including oil, &c., amounts to less than 5s. per week, requiring little or no attention, and is perfectly free from all danger—in fact, a boy of 14 years of age, after a few days instruction, is quite competent to take entire charge of it. It affords me great pleasure to state that I am perfectly satisfied with it in every respect.

7, Red Cross-square, Jewin-street, London, August 17, 1865.—DEAR SIRS: In reply to your's, respecting the hot-air engine, I can say that it has worked to my entire satisfaction, driving two double-crown printing machines at a cost of 5s. per week, including the cost of oil. You may with confidence recommend it to anyone, as nothing can equal it for safety and economy; and they only require to be known to be appreciated. A boy fourteen years old attends to mine. Any further information that you may require I shall be happy to give you.

W. G. BUNTING

N.B.—There are one-horse power engines.—J. D. C., Sec.

BOWLING IRON COMPANY, BEST CRUCIBLE CAST-STEEL TYRES, AXLES, CRANK

AXLES, BOILER PLATES,

Also COG WHEELS, and other CASTINGS.

This company is prepared to furnish the above-mentioned articles in CAST
STEEL of a very superior quality, made principally from their own well-known

"BOWLING IRON."

Also BOWLING WROUGHT-IRON SOLID WELDLESS TYRES, of any siz and to any section.

Memorial to the late Nicholas Wood, Esq.

MEMORIAL TO THE LATE NICHOLAS WOOD, Esq.—

At a PUBLIC MEETING of the Subscribers to this Fund, held in Newcastle on the 10th November, 1866, it was unanimously resolved that the proposed MEMORIAL should be in the FORM of a HALL to be ERECTED in NEWGASTLE, for the use of the Northern Institute of Mining Engineers, to be available for all classes of the Mining Community, under the arrangement of the Council of the Institute. It was also resolved that there should be placed in this hall Busts of Mr. Wood and of others who had been distinguished in this district as Mining or Civil Engineers, &c. It is estimated that the sum required for the purpose will be from £5000 to £6000.

John Wakefield, Elemore Sundry Small Sums

Total£1612 6 6 Subscriptions will be received by the following Members of the Committee:—
MR. T. E. FORSTER.
MR. I. L. BELL.
MR. H. J. MR. H. J. MR. H. T. MORTON.
MR. GEORGE ELLIOTT.
MR. GEORGE COCKBURN. MR. T. E. FORSTER.
MR. I. L. BELL.
MR. HUGH TAYLOR, JUN.
MR. GEORGE ELLIOTT.

MR. GEORGE ELLIOTT. | MR. GEORGE COUNDURN.

By any of the bankers in Newastle-on-Tyne, and by the Treasurer and Secrearies. E. F. BOYD, Moor House, near Durham, Hon. Treasurer.

G. B. FORSTER, Backworth, near Newcastle,

JOHN TODD, Hetton-le-Hole, Fence Houses,

Secretaries.

THE LOVELL CONSOLS MINING COMPANY,
Situate in the parish of WENDRON, county of CORNWALL.
In 1024 shares of £3 each.
CONDUCTED ON THE "COST-BOOK SYSTEM."
BANKERS-London and Westminster Bank, London.
MANAGER-Captain William Chappell, Helston, Cornwall.
SECRETARIES-Messrs. Bartlett and Chapman.
OFFICES,—No. 2, BUCKLERSBURY, LONDON, E.C.

OFFICES,—No. 2, BUCKLERSBURY, LONDON, E.C.

PROSPECTUS.

The property of this company is situated in the parish of Wendron, in the county of Cornwall. The sett is in the heart of the Lovell district, and is adjacent to Old Wheal Lovell, East Wheal Lovell, New Wheal Lovell, Trevenen and Tremenheere, and Trumpet Consols.

The lodes running through the sett are a continuation of those of Old Trevenen, Trumpet Consols, and Wheal Lovell, which lodes returned enormous quantities of in: Trumpet Consols alone returning £500,000 whilst Trevenen and Wheal Lovell each have sold upwards of £200,000 worth. As this sett occupies an unrivalled position geologically, and is undoubtedly rich in tin, as shown by subjoined reports by men of the first standing in the County of Cornwall, it presents all the elements of success, and it is confidently believed that by vigorous and economical working it will well remunerate the adventurers.

The district is celebrated for the immense returns of tin, made in ancient and more notably in modern times. East Wheal Lovell is at the present timemaking large monthly profits. The Turnpike lode of this mine has lately improved to £25 per fathom, and increasing in value as they get deeper. The property of this company is in the same channel of ground, and presents all the features that can be desired for tin mining.

The stratum is precisely of the same character as that in the neighbouring mines; and as shown by the reports, many points of value can be driven upon at once.

There is an adit passing through the sett, which has been cleared, secured,

at once.

There is an adit passing through the sett, which has been cleared, secured and timbered, for upwards of 400 fathems in length. The engine-shaft is sunk 16 fms. below the adit, or 28 fms. from surface. The 12 fm. level has been extended 5 fms. cast of engine-shaft, and 46 fms. west; in driving this level west ward a large quantity of tin was discovered and taken away, but in the end there is a splendid course of ore, which may at the present moment be worked at a profit; and as this is nearing the great cross-course, which is known to exist a short distance from the end, a very valuable discovery may be confidently anticipated in a short time.

at a profit; and as this is nearing the great cross-course, which is known to exist a short distance from the end, a very valuable discovery may be confidently anticipated in a short time.

The extensive "old men's" workings, seen at surface, clearly indicate that large quantifies of mineral have been taken away, their workings having been extended so far as the water would allow them without the ridiof machinery.

There is now on the mine in efficient working condition an excellent engine, which is capable of draining the mine to the 80 fm. level; horse-whims; account-house: carpenters and ""iths' shops; together with all the necessary appliances for carrying on extensive operations.

The principal points of perations.

The principal points of perations.

The principal points of perations at the present time are, the driving of the 12 fm. level east; the communication of the new shaft with the 12 fm. level; and the driving of the toross-cut north at that shaft to open up the middle and flat-rod lodes.

Typwards of £3000 has siready been expended on the property, and as stated in the report of Capt. J. Nancarrow, "The mine is just now getting into working order, and its development might be commenced at once, without any outlay in machinery, and with an unusual prospect of success."

Tin can at once be returned, and looking at the present indications a very moderate outlay cannot fail to remunerate the proprietors.

No call will be necessary for at least six months.

Perusal of the subjoined extracts of reports by men celebrated in the county of Cornwall for judgment and integrity is invited, which with the plans will be found interesting, as showing that this property is one of no ordinary promise. Samples of the from the 12 fm. level can be seen at the offices of the company, 2, Bucklersbury, London, EU.

Prospectuses and forms of application for snares may be obtained at the omces of the company, 2, Bucklersbury, London, E.C.

REPORTS.

Camborne, Oct. 22, 1866.—This mine is situated in the parish of Wendron, 3½ miles east of the town of Helston, and is, consequently, in one of the richest tin districts in Cornwall, being bounded on the north-east by East Lovell, on the north by New Lovell, and on the west by Wheal Lovell and Trevenen and Tremenheere; and is in the immediate vicinity of Trumpet Consols and other mines, which have given large profits. The stratum is granite, as in all the neighbouring mines. The sett is 330 fathoms from east to west, and 450 fathoms from north to south, and is traversed by several of the lodes, which have been so productive in the mines to the westward. The adit has been cleared and secured for 400 fathoms in length, is 12 fathoms from surface, and drains the water from three lodes at that depth. The main lode is seen to be worked in the adit for about 20 fathoms long, and is, probably, worked to a much greater length; the backs are all taken away to surface; the bottom is stoped 12 fms. east of the engine-shaft for 3 fathoms long, and to a depth of 5 feet, when the lode would pay well for working, if drained, but there is no level under it. The engine-shaft is sunk 16 fathoms below the adit. The 12 fm. level is driven 40 fathoms west of the engine-shaft, the first 15 fathoms below the adit. The 12 fm. level is driven 40 fathoms west of the engine-shaft, the first 15 fathoms poor, thence to end bunches of tin ground, which for half the length might be worked on tribute. The lode for the last 3 fms. driven 18 ½ ft. wide, and worth 4. per fathom; this tin continues to the end. There is a new shaft coming down 4 fathoms north of this level, 15 fathoms behind the end, which might be worked on tribute. The lode for the last 3 fms. driven 18 ½ ft. wide, and worth 4. per fathom; this tin continues to the end. There is a new shaft coming down 4 fathoms north of the middle lode is 8 fatho REPORTS.

with an unusual prospect of success.

JOHN NANCARRÓW.

Lovell Consols, Nov. 29, 1866.—We have inspected the above mine to-day, and beg to hand you the following as our report:—The engine-shaft is sunk to the 12, and driven on the lode about 19 fathoms east and 19 fathoms west; and in the east 2 fathoms of driving west. The ground has lately improved, and the lode more productive, now yielding good work for thi; and as it nears the great cross-course, which is about 10 or 15 fathoms west of the present end, and judging from the "Old Men's" workings, seen at surface, both east and west of the cross-course, a large quantity of tin must have been raised; and we would recommend a vigorous exploration in this direction, on this iode, which will be under the old workings. We have examined the surface, and we have never seen so much shallow workings done by the ancient workers in any mining district, which is sufficient proof that large quantities of tin have been raised. These workings are on a continuation of Old Wheal Lovell, Trumpet Consols, and Trevenen and Tremenheere lodes, which have yielded large quantities of tin, and given great profits to the adventurers. The work already done, such as clearing adits and shafts, erecting engine and pitwork, and necessary buildings for the operations of the mine, will be a great advantage for the future workings. Seeing the numerous lode this sett contains, and being in a good mining district, we have great confidence in recommending a vigorous prosecution of the whole of the lodes, and when properly wrought on will, we believe, prove remunerative.

prove remunerative.

JOHN CURTIS, Mineral Agent for John J. Rogers, Esq., and Manager
of Leeds and St. Aubyn Mines.

STEPHEN HARRIS, Agent of Great Wheal Vor.

STEPHEN HARRIS, Agent of oreas these states of Lovel Consols, which is situated in the centre of the Lovel district. The sett contains nine known lodes, running parallel, and in the same channel of ground as that of East Wheai Lovell, and also traversed by the same cross-courses. The sett is bounded on the west by Old Wheal Lovell, and on the north-east by Bast Wheai Lovell; but the lodes are a continuation of Old Trevenen, Trumpet Consols, and Old Wheal Lovell. Trevenen Mine having paid in one year alone dues amounting to more than \$20,000. At East Wheal Lovell and Trumpet Consols they are also making good monthly profits. A considerable outlay has already been incurred in erecting engine, smiths' and carpenters' shops, material and account houses, horse, whims, 8-in, and 9-in, pitwork in engine and flat-rod shafts, surface rods, with nulley-stands, &c., and everything requisite for carrying on the Solicitor, Neath; or the Auctioneer, at his offices, at Neath and Sampeneers, and serving cross-cut, the set east whealt is now in the mether of the Sperfum, with indications of a greater improvement, on getting nearer the rose-scores, to the west of which the former worker raised from back or bottom of the adit level a large quantity of rich tinstuff. In conclusion, beginn the set estate that with the present prospects in the 12 fm. level end west the plant, machinery, and buildings now on the mine, and the water in fork, I consider it to be a speculation second to none in the district, as the can be raised at once.

Nov. 26.—The sett is bounded on the west by 0id Wheal Lovell, Trevenen and which are four of the richest mines in the Wendron district.

Solicitor, Neath; or the Auctioneer, at his offices, at Neath and Somerset; to Mr. KEMPTRORE, Solicitor, Neath; or the Auctioner, at his offices, at Neath and Sonerset; to Mr. KEMPTRORE, Solicitor, Neath; or the Auctioner, at his offices, at Neath and Solicitors, 7, King's Colicitor, Neath; or the Auctioner, at his offices, at Neath and Sonerset; to Mr. KEMPTRORE, Solicitor, Neath; or the Auctioner, at his offices, at Neath and Sonerset; to Mr. KEMPTRORE, Solicitor, Neath; or the Auctioner, at his offices, at Neath and Solicitors, 7, King's Mr. Auctional New Man, Lyon, and Newman, Solicitors, 7, King's Colicitor, Neath; or the Auctioner, at his offices, at Neath and Sonerset; to Mr. KEMPTRORE, Solicitor, Neath; or the Auctioner, at his offices, at Neath and Solicitor, Neath; or the Auctioner, at his offices, at Neath and Solicitors, 7, King's Colicitor, Neath; or the Auctioner, at his offices, at Neath and Solicitors, 7, King's Colicitor, Neath; or the Auctioner, at his offices, at Neath and Solicitors, 7, King's Colicitor, Neath; or the Auctioner, at his offices, at Neath and Solicitor, Neath; or the Auctioner, at his offices, at Neath and Solicitor, Neath; or the Auctioner, at his offices, at Neath and Solicitor, Neath; or the Auctioner, at his offices, at Neat

Nov. 26.—The sett is bounded on the west by Old Wheal Lovell, Trevenen and Tremenheere, and Trumpet Consols, and on the north-east by East Wheal Lovell, which are four of the richest mines in the Wendron district—Trevenen and Tremenheere Mine having paid to the lord upwards of £20,000 in one year alone for dues, and are now making good monthly profits. Trumpet Consols has been equally rich, and is now making as profit of upwards of £300 per month, although at a depth of 184 fms. below surface. East Wheal Lovell is also making large monthly profits. The lodes are a continuation of those of Trevenen and Tremenheere, Old Wheal Lovell, and Trumpet Consols, and from the immense workings seen on the back of the lodes, and also in the back and bottom of the adit level. It is a sufficient guarantee that the ancient workers must have raised a vast amount of rich tin to the west of the great cross-course. A large amount of money has been expended by the former workers in erecting buildings, engine, pitwork, clearing an adit for upwards of a mile long, &c. The 12 fm. level is driven 40 fms. west; in the present end the lode is lin. wide, worth from £8 to £10 per fm., and which has been gradually improving for the last 3 or 4 fms. The flat-rod shaft is sunk 10 fms. below the adit. The 10 chould be extended west to the clay cross-course, which in East Lovell produced a rich course of tin both east and west of same. The present prospects warrant a vigorous prosecution, and we confidently believe it will lead to good results.

E. KEMPTHORNE; W. H. MARTIN, Agent at Penhale Wheal Vor.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and in the MATTER of the GODOLPHIN HILL MINING COMPANY (LIMITED).—Notice is hereby given, that a PETITION for the WINDING-UP of the ABOVE-NAMED COMPANY by the Court was, on the 30th day of November last, presented to the Vice-Warden, by William Cock Vivian and Joseph Vivian, creditors and also contributories of the said company, and that the said petition is directed to be heard before the Vice-Warden, at No. 18, Thurloe-square, Brompton, in the county of Middlesex, on Thursday, the 20th day of December inst., at Twelve o'clock at noon.

Any contributory or creditor of the company may appear at the hearing and oppose the same, provided he has given at least two clear days' notice to the petitioners, their solicitors, or agents, of his intention to do so, such notice to be forthwith forewarded to P. P. Smith, Esq., secretary of the Vice-Warden, Truro.

Every such contributory or creditor is entitled to a copy of the petition and affidavit verifying the same, from the petitioners, or their solicitors, within 24 hours after requiring the same, on payment of the regulated charge per folio.

Affidavits intended to be used at the hearing, in opposition to the petition, must be filed at the Registrar's Office, Truro, on or before the 17th day of December inst., and notice thereof must, at the same time, be given to the petitioners, their solicitors, or agents.

TREHERNE AND WOLFERSTAN, 75, Aldermanbury (Solicitors for the Petitioners).

CARLYON AND PAULL Truro.

(Solicitors for the Petitioners).

CARLYON AND PAULL, Truro
(Agents of the said Solicitors).

Dated the 4th day of December, 1866.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the WEST WHEAL VOR MINING COMPANY.—By an order made be the vice-Warden of the Stannaries in the above matter, dated the day of December inst., on the petition of William John Rawlings, of H within the said Stannaries, a creditor and also a shareholder of the said pany, it was ordered that the WEST WHEAL VOR MINING COMPANY share. e WOUND-UP by this Court, under the provisions of the Companies Act, 186
HODGE, HOCKIN, AND MARRACK, Solicitors, Truro.
Dated Truro, 4th December, 1866.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the NEW WHEAL MARTHA MINING COMPANY.—By an order made by his Honour the Vice-Warden of the Stannaries in the above matter, on the 22d day of November last, on the petition of Richard Packey, Thomas Smitheram, James Littlejohn, and Daniel Littlejohn, creditors of the said company, it was ordered that the voluntary liquidation of the said company be continued, subject to the supervision of this Court.

HODGE, HOCKIN, AND MARRACK, Truro

to the supervision of this Court.

HODGE, HOCKIN, AND MARRACK, Truro
(Agents for fd. Peter, Launceston, Solicitor for the Petitioners).

Dated Truro, December 3d, 1866.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the ROSKEAR MINING COMPANY.—The Registrar of the Court has appointed Friday, the 21st day of December inst., at Eleven of the clock in the forenoon, at the Registrar's Office, at Truro, to SETTLE the LIST of CONTRIBUTORIES of the ABOVE-NAMED COMPANY now made out and deposited at the said office.

WM. MICHELL, Registrar of the said Court.
Dated the 6th day of December, 1866.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the WHEAL HARTLEY MINING COMPANY.—The Registrar of the Court has appointed Monday, the 17th day of December inst., at Eleven of the clock in the forenoon, at the Registrar's office, at Truro, to SETTLE the LIST of CONTRIBUTORIES of the ABOVE-NAMED COMPANY now made out and deposited at the said office.

WM. MICHELL, Registrar of the said Court.

Dated the 6th day of December, 1866.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall..

IN the MATTER of the COMPANIES ACT, 1862, and of the TRESKERBY MINING COMPANY.—Notice is hereby given, that ALL CREDITORS of the ABOVE-NAMED COMPANY are REQUESTED, on or before the 19th day of December inst., to SEND IN THEIR NAMES and ADDRESSES, and the AMOUNTS and PARTICULARS of THEIR SEVERAL CLAIMS on the said company, to WILLIAM MICHELL, Esq., the Registrar of the said Court at Truro.—Dated Truro, December 6th, 1866.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

PURSUANT to a Decree made in the Cause of Martyn r. Hambly, the CREDITORS in respect of MULBERRY HILL MINE, in the parish of Lanivet, within the said Stannaries, are REQUIRED, on or before Wednesday, the 19th day of December inst., to COME IN and PROVE THEIR DEBTS before the Registrar of the said Court, at his office, in Truro, or in default thereof they will be peremptorily excluded the benefit of the said Decree.—Dated Registrar's Office, Truro, December 6th, 1866.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

MARTYN v. HAMBLY.

IN RE MULBERRY HILL MINE.

O BE SOLD, under the direction of the Registrar of this

Court. BY PUBLIC AUCTION, on Thursday, the 20th day of December
1st., at MULBERRY HILL MINE, in the parish of Lanivet, within the said
1stannarles, the undermentioned MINING MACHINERY, MATERIALS, and
THER EFFECTS viz.

Stannaries, the undermentioned MINING MACHINERY, MATERIALS, and OTHER EFFECTS, viz.:—
ONE 20 in. cylinder ROTARY ENGINE, with two fly-wheels, for stamping and pumping; and a variety of other articles and effects in general use in mines. Further information may be had on application to the officer of the Court in possession thereof, or to

HODGE, HOCKIN, AND MARRACK, Solicitors, Truro. Dated Registrar's Office, Truro, December 6th, 1866.

COUNTY OF GLAMORGAN, PARISH OF CADOXTON-JUXTA-NEATH. SALE OF AN IMPORTANT FREEHOLD ESTATE.

SALE OF AN IMPORTANT FREEHOLD ESTATE.

NR. THOMAS THOMAS has been favoured with instructions to SeLL, By AUCTION, at the Castle Hotel, Neath, on Thursday, the 1sth December, 1866, at Three o'clock in the afternoon, in one lot, the important FREEHOLD ESTATE, containing in the whole upwards of ONE HUNDRED ACRES, situate adjoining the turnpike-road leading from Neath to Swansea, and close to the Lian-amiet Station of the Great Western Railway, known as "LONLAS," comprising a delightfully situate and handsome modern RESI-DENCE, with ornamental grounds, cultivated lands, and woodland. A highly-valuable BUILDING SITE, with extensive frontage for dwelling-houses, cottages, &c., also admirably adapted for the erection of IRON, TIN-PLATE, WIRE, or other works, together with a valuable FIRE-BRICK MANUFACTORY, five dwelling-houses, and the reversion in fee of a public-house and nineteen cottages and premises, held on lease by various parties at annual ground rents. A plan of the estate may be inspected, and further particulars obtained, on application to Messars. NEWMAN, Lyon, and NEWMAN, Solicitors, 7, King's Bench-walk, Temple, London, and Yeovil, Somerset; to Mr. KEMPTHORNE, Solicitor, Neath; or the Auctioneer, a blas offices, at Neath and Swansea.

Swansea.

The above collieries comprise two walled shafts, fitted on the newest and most improved principle, with FOUR powerful STEAM-ENGINES (two large, nearly new), with horizontal cylinders; and houses, buildings, workshops (complete), with residences, dwelling-houses, &c. All the eligible entensive contracts and business made over to the purchaser.

This property is intersected by the Swansea Vale Rallway for upwards of a mile, and the two collieries communicate therewith by convenient sidings, and are in close proximity to the Great Western Rallway.

Also the LEASE of wharf for shipping at Swansea, including all interest, wagons, trams, &c., of every description necessary, and in perfect order.

Also, the LEASE of about four hundred acres of surface land, in good farming order, with homesteads, stock, &c.

Apply to W. M. HACON, Esq., 31, Fenchurch-street, London; or to Mr. Evan Daniel, mining engineer and estate agent, Christiana-street, Swansea.

TO BE SOLD, cheap, a PORTABLE ENGINE of 14 horse power, double cylinder, of first-class construction, workmanship, and material. Winding gear to order. SECOND-HAND PORTABLES FOR SALE.—Apply to Messrs. Barrows and Carmichael, engineers, Barbury, Oxon.

IMPORTANT SALE.

IMPORTANT SALE.

COPPER AND PYRITES MINES IN NORWAY.

On Tuesday, the 15th day of January next, at Eleven o'clock A.M., will

be SOLD, BY PUBLIC AUCTION, in the office of the Sheriff (Sorenskriver) in

Orkedalen, near Drontheim, in Norway, the mining property of Messrs. Pinto,

Perez, Ashley, and Co., viz. :—AMODT'S and HOYDALEN'S COPPER and

PYRITES MINES, in MELDALEN, with MACHINERY and SUNDRIES, in
cluding a place for iaying the ore, and a quay or pier on the beach at Orkedalen,

with dwelling-houses at the mines and near the casting-house. The mines last

year yielded about 6500 tons good pyrites, and 100 tons rich copper ore.

For further particulars, apply to Messrs. Heinr. Meyer and Co., in Dron
theim: (Messrs. Harding, Whinner, Gibbons, and Co., No. 3, Bank-building,

London, accountants; Messrs. W. Murray, Son, and Hutchins, 11, Birchin
lane, London, solicitors; and Mr. Edward Ross Bryant, Newcastle-on-Tyne.

London, accountants; Messers, W. MURRAY, SON, and HUTCHINS, 11, Birelin, lane, London, solicitors; and Mr. Edward Ross Bryant, Newcastle-on-Tyne.

TO CAPITALISTS, PUBLIC COMPANIES, AND OTHERS.—
Particulars of a VALUABLE and EXTENSIVE SLATE AND COPPER PROPERTY FOR IMMEDIATE DISPOSAL BY PRIVATE CONTRACT, situate in NORTH WALES, within about four miles of shipping port, to which place a railway, running for nearly two miles parallel to and within a few hundred yards of the estate, will enable the produce to be conveyed at an almost nominal cost. There are upon the property four or five very EXTENSIVE SLATE VEINS and a VALUABLE COPPER MINE.

Three quarries have been opened, and the works in either case brought nearly to completion, several cargoes of excellent slates having been sold, as also a large quantity of very rich copper ore. There are about 800 yards of levels, 100 yards of shafts, about one mile of iron rails laid down, foreman's home, magazine, &c.

The lease is for a term of NINETY-NISE YEARS, WITHOUT ANY RENT OR ROYALTY WHATEVER. These unusually favourable terms very much enhance the value of the property. There are reports and opinions of sever or eight of the most eminent authorities as well as other opinions as to the capabilities and nature of the property. In addition to the three quarries alluded to another vein of slate has been opened upon and tested. The property offers unusual facilities for sub-letting in four or five divisions, exclusive of the copper, the quarries being far apart, and the existing works as advanced in either case, either division being sufficiently large for one company or firm.

The property possesses great natural advantages. Many thousands of pounds have been expended on the works, which have been carried out in a thoroughly substantial manner, the heavy expenditure of capital and inevitable loss of time attending the opening of all quarries having been aiready incurred. The terms of purchase will be made easy; one-third will be required in cash, half of the whole purch

NICHOLLS, MATHEWS, AND CO., ENGINEERS, MANUFACTURERS of STEAM ENGINES OF EVERY DESCRIPTION, made on the BEST and NEWEST PRINCIPLES. We beg more especially to call the attention of the public to the MANUFACTURE of our BOILERS, which have been tested by most of our leading engineers. PUMP WORK CASTINGS of EVERY DESCRIPTION, both of brass and iron. HAMMERED IRON and HEAVY SHAFTS of ANY SIZE. CHAINS made of the best iron, and warranted. MINERS' TOOLS and RAILWAY WORK of EVERY DESCRIPTION. ALL ORDERS FOR ABROAD RECEIVE their BEST ATTENTION. NICHOLLS, MATHEWS, and Co. have had 20 years' experience in supplying machinery to foreign mines, and selecting experienced workmen to erect the same, where required.

Messrs. Nicholls, Mathews, and Co. have always a LARGE STOCK of SECOND-HAND MINE MATERIALS in stock, and at moderate prices.

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ESTABLISHED 1847.

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MANUFACTURERS of RAILWAY CARRIAGE, WAGON, and CONTRACTORS' WHEELS and AXLES, and other IRONWORK, used in the CONSTRUCTION of RAILWAY ROLLING STOCK.

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The results of twelve months' experience in the working of these machines, but the West Ardeley Company, have proved most satisfactory, their use being found to CHEAPEN the COST and IMPROVE the average SIZE of the COAL to LIGHTEN the LABOUR, and also to MODIFY the SANITARY CONDITION of the MINE.

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of which any such INFRINGEMENT IS MADE.

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It will not explode from a spark or fire, but from concussion alone, and is consequently much less dangerous than gunpowder or gun-cotton. Being heavier than water it sinks to the bottom of a wet hole, no other tamping than water being required.

One charge of this blasting oil, which is now being used with wonderfulffet in all the largest slate quarries in North Wales, will displace as much slate rock as four or five charges of gunpowder; and its great force, acting on a large quantity of good slate rock, shakes and displaces it at the natural joints, of cracks, without damaging the slabs nearly so much as the more numerous blasts from any other blasting material would do.

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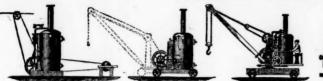
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30 cwts. to 20 tons.
For wharf or rail.

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For steep inclines and quick curves.

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GUNPOWDER, and BICKFORD, SMITH, AND CO. CLAIM SUCH TWO SEPARATE THREADS ASSING THROUGH the COLUMN of
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PRENTICE'S BLASTING GUN-COTTON PRODUCES NO SMOKE, and having been further REDUCED in PRICE is now by far the CHEAPEST as well as the SAFEST material which can be used in any description of mining or quarrying work.

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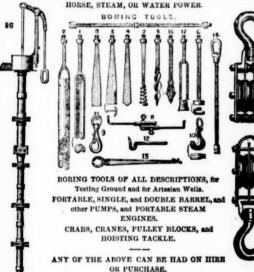
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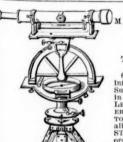
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I remain, Gentlemen, yours obediently,
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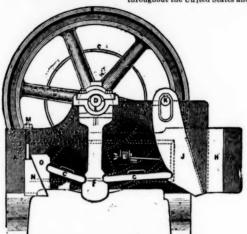
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It is rapidly making its way to all parts of the globe, being now in profitable use in California, Washoe, Lake Superior, Australia, Cuba, Chili, Brazil, and throughout the United States and England. Read extracts of testimonials:—



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This Pump is constructed on an entirely novel and simple principle, there being only a crank-shaft and fly-wheel of small size, the slide-valve being worked inside the steam chest by means of a steel crank and friction roller, thus dispensing with eccentric, rod, and straps. All the working parts are made of steel, hardened and polished. The cylinder and pump are in one casting, and borred throughout the body of the pump as well as the stuffing-box. The pump-ram is of the best gun-metal, being cast in one piece with the piston and piston-rod, and fitted accurately to the bored body of the pump, thus ensuring a nearly perfect vacuum in pumping. The stuffing-box glands are also of gun-metal polished. The valves and boxes are of the best gun-metal, the valves being of the spherical description, the covers fitted with brass cages, and the joints faced metal to metal. The slide-valve is of hard bell-metal. The steam-chest, with cylinder end, is in one piece, and may be removed without disturbing either steam or exhaust pipes. The whole engine may be taken to pieces and put together under steam in fifteen minutes, without disturbing any pipes whatever.

Ram. Stroke. Approx. h.p. Approx. gal.

Price of Giffard's Injector.

[SPECIFICATION.]

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DR. WATSON (of the Lock Hospital), F.R.A.S., Member of the College of Physicians and Surgeons, on the SELF-CURE of NERVOUS and PHYSICAL DEBILITY, Lowness of Spirits, Loss of Appetite, Timidity, Incapacity for Exertion, &c., with means for perfect restoration. Sent free for two stamps by Dr. WATSON, No. 1, South-crescent, Bedford-square, London, Consultations daily from 11 till 3, and 6 till 8; Sandays, 10 till 1.

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WONDERFUL MEDICAL DISCOVERY, demonstrating the
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128 Cwmystwith, l, Cardiganshire 60 0 0 367 10 0 5 3 9Oct. 186	6 1
280 Derwent Mines, s-l, Durham 300 0 0 167 0 0 5 0 0Oct. 186	
1024 Devon Gt. Consols, c, Tavistockt 1 0 0 435	6
358 Deleoath, c, t, Camborne 128 17 6 320 816 10 0 2 0 0Oct. 186	
6144 East Caradon, c, St. Cleer 2 14 6 514 434 5 14 5 6 0 2 6 July, 186	
300 East Darren, t, Cardiganshire 32 0 0 136 10 0 2 0 0 Nov. 186	
128 East Pool, t, c, Pool, Illogan 24 5 0 400 387 10 0 2 10 0 Nov. 186	
5000 East Rosewarne, c, t, Gwinear 2 15 0 16 14 36 0 10 6 0 1 6 Jan. 186	
1906 East Wheal Lovell, t, Wendron 3 9 0 10 9 914 2 7 6 0 7 6 May, 186	
2800 Foxdale, l, Isle of Man* 25 0 0 69 0 0 0 10 0Oct. 186	
5000 Frank Mills, l. Christow 3 18 6 17 18 3 5 6 0 5 0. Feb. 186	6
15000 Great Laxey, l, Isle of Man* 4 0 0 18 5 5 0 0 10 0 Sept. 186	
5908 Great Wheal Vor. t, c, Helstont 40 0 0 1616 15 16 10 10 0 0 10 0. Sept. 186	
1024 Herodsfoot, l, near Liskeard 8 10 0 32 30 32 39 0 0 1 10 0Oct. 186	
6000 Hingston Down, c t	
400 Lisburne, l. Cardiganshire, Wales 18 15 0	
9000 Marke Valley, c. Caradon 4 10 6. 4 3½ 3¾ 3 9 0 0 2 0 Oct. 186	6 .
3000 Minera Boundary, l, Vrexham* 1 0 0 — 0 13 0 0 3 0 Mar. 186	6 3
1800 Minera Mining Co. l, Wrexham*. 25 0 0 — 205 8 0 3 0 0 Nov. 1860	
20000 Mining Co. of Ireland, c, l, cl 7 0 0 17 1634 17 July, 1866	6
40000 Mwyndy Iron Ore 1 3 5 0 1/2 3/4 0 6 6 0 2 6. Mar. 1860	
- New Merrybent and Middleton*. 3 10 0 316 5 per cent Nov. 1866	
600 Pant-y-Glien, sl	
200 Parys Mines, c, Anglesey* 50 0 0 157 10 0 5 0 0 Jan. 1860	8 12
1120 Providence, t, Uny Lelant 10 67 21 23 81 17 6 0 10 0. Nov. 1866	
512 South Caradon, c, St. Cleer 1 5 0 330 320 340 539 10 0 5 0 0 Nov. 1866 6000 South Darren, l* 3 6 6 2 0 5 6 0 2 6 June, 1866	
	8 8
	20
17000 Wicklow, c, s, Wicklow 2 10 0 23 23 45 15 0 0 18 0 Oct. 1866	1
	1 1

BRITISH MINES WITH DIVIDENDS IN ABEYANCE.

1200 Bryn Gwyn, l, Mold	9 0 0		 8 8 6	0 13 6Aug. 1865
2880 Clifford Amalgamated, c, Gwen	31 10 0	6 45	 35 60	0 10 0June, 1865
1055 Craddock Moor, c, St. Cleer			 7 12 0	0 4 0 June, 1865
6000 East Carn Brea, c. Redruth	3 15 0	2% . 2% 2%	 0 50	0 5 0June, 1865
6000 New Birch Tor and Vitifer Cons. t	1 6 6		 0 13 0	0 2 0Oct. 1865
6000 West Basset, c, Illogant	1 10 0	74	 26 14 0	0 5 0July, 1865
1024 Wheal Exmouth, ?, Christow				0 2 6 Oct. 1865
1024 Wheal Mary Ann, l, Menheniott	8 0 0	12 10 12	 59 17 6	0 10 0 Mar. 1865

FOREIGN DIVIDEND MINES.

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FOREIGN MINES WITH DIVIDENDS IN ABEYANCE.

10000 Alten and Quænangen United.c.	4	10	0	-				 4	5	0	ô	15	0 Nov.	1853
20000 Australian, c, South Australiat	7	7	6	-				 0	2	0	0	1	0June.	1865
2464 Burra Burra, c. South Australia.	5	0	0	-				 325	0	0	5	0	0 Dec.	1864
12000 Cobre Copper Company, c, Cubat.	40	10	0	2		156	2	 101	0	0	1	0	0. Jan.	1865
10000 Copiapo Mining Company, Chilit			0	-				 6	18	0	0	10	0. Nov.	1862
100000 Don Pedro No. del Rey, Brazil**			0	-				 0	0	9	0	0	9 Dec.	1863
70000 English and Australian, c	- 2		0		×	5/8	7/4	 1	12	0	2	0	O. Aug.	1864
68000 Kapunda Mining Co., Australia†	1	0	0	-			-	 0	12	0	0	1	0June.	1864
10000 Lusitanian (Portugal)	3	0	0	-									0June.	
103815 Mariquita and New Granadat	1		0	-				 0					6July.	
43174 United Mexican, s. Mexico	28		0			154	2	 2					0. Sept.	
10000 Vancouver, cl* +	5	0	0	-		-							0 Nov.	
45000 Yudanamutana, c, S. A. *	3	0	0	13		11/4	13/8	 0	5	0	0	5	0 Aug.	1863

NON-DIVIDEND FOREIGN MINES.

NON-DIVIDEND FOREI	0.74	THE T TO	13 13,		- 1
Shares. Mines.	Paid.	La	st Pr.	Bus, do	ne. Last Call.
35000 Alamillos, 7. Spain*†	2 0	0	134		Fully pd.
100000 Anglo-Brazillan, g**	0 10	0			Nov. 1866
40000 Brittany Silver-Lead Mines, France* [15750 18s. pd.]					***************************************
25000 Capula, s. Mexico*f	1 12 (114		Aug. 1866
30000 Chontales, g, s, Nicaragua*†	3 0 0			2% 2%	
10000 Coplano Smelting, Chill*	10 0 0			-/8 -/8	April. 1866
300 Copper Miners' Co. of South Australia 150 £100 pd.	150 £7	0 pd.1			Nov. 1866
50000 East del Rey, g, Brazil**	2 15 ()			June, 1866
15000 El Chico Silver Mining and Reduction Company	4 10 0				Jan. 1866
8000 English and Canadian Mining Company*	5 0 0				Fully pd.
\$0000 Frontino and Bolivia, g. New Granada*†	1 10 6			28, 48,	
80000 Great Northern, c. South Australia*+	1 11 6			*** 12.	Sept. 1862
10000 Great Barrier Land. Mining, &c., New Zealand*	5 0 0				Fully pd.
12500 Nerbudda Ceal and Iron** [6000 £5 pd., 6500 £4 pd.]	-				Aug. 1865
50000 Nova Scotis Land and Gold	1 15 0				Sept. 1865
15000 Otea, c, New Zealand* [5000 fully paid]	1 10 0				April. 1866
6000 Peel River Land and Mineral*	100 0 6				Stock.
30000 Pestarena, g**			214	134 2	Aug. 1866
23000 Quebrada, c, Venezuela*†	10 0 0		11/4	1/4 1	Fully pd.
10178 Rhenish Consolidated, l [6000 £5 pd., 4178 £2 10s. pd.]	-			/3 -	May, 1866
50000 Rossa Grande, q. Brazil*	0 7 6				April. 1864
15000 San Pedro del Monte, s, Mexico.	4 0 0				Sept. 1866
10000 San Roque, l. Spain	5 0 0				Fully pd.
1000 Schlossberg Colliery*	10 0 0				···
20000 Val Antigoria, g**	0 15 0				July, 1866
6000 Val Sassam, s, c, l*†	5 10 0		1%		April. 1866
5000 Valgodemard Mining Company*	20 0 0				Fully pd.
50000 Vallanzasca, g. Italy**	0 15 0				July, 1866
45000 Victor Emanuel, c, Italy*	1 0 0				Fully pd.
20000 Washoe, d	5 0 0			1 11%	Fully pd.
80000 Worthing, c, South Australia **	1 0 0		1/2	14 1/4	Fully pd
7500 Yorke Peninsula, South Australia	1 0 0		1/2	1/4	Fully pd.
			1.00	/ *	are and bear

BANKS AND FINANCIAL COMPANIES.

	,	-		****		0.74		
Shares. Banks.	7	aid	. 1	ast P	r. 1	Bus.	done	?.
40000 Alliance*f	25	0	0 .	. 19		716	181/2	
40000 Australian Mort. Land and Financet	. 5	n	0 .	. 5			5	
20000 Australasiat	40	0	0 .	. 63		60	62	
10000 Bank of Egypt+	49.5		0	91		99	31	
10000 Bank of New Zealandt	10	0	9 .	181/			19	
95000 Bank of Orago"t	3.0	0	0 .	. 6				
25000 Bank of Queensland**	25	0		. 10				
50000 Bank of Victoria, Australia+	95	0		39		37	29	
50000 Brazilian and Portuguese**	10	0				71/4		
58915 Canada Company +	29	10	,	80			80	
40000 Canadian Loan and Investment*	9	10				10	0.0	
30000 Chart, Bank India, Aust, & China+	90	0				41/	151/2	
50000 Char. Merc. India, Lond. & Chinat	95	0		35				
20000 City†	10	0 (16		14		
40000 Colonial†	95	0 6				34		* *
50000 Company of African Merchants. * †	3	0			-	9.5	90	**
10000 Consolidated Bank*†	4	0				45/4	43/	
200000 Credit Foncier and Mobiller of England*	4	0 (3				
10000 Discount Corporation*	00	0				$2\frac{1}{4}$	274	
goong East London**		0				21/2	91/	
30000 English, Scottish, & Aust., Chart.	00	0 1						
20000 English and Swedish*t	20			171/4		16		
250000 General Credit and Finance of London **	20	0		141/4		13		
20000 Imperial Bank*†	6					33/4	4	
150000 International Financial Society*	20	0 (24				
300000 International Land Credit*	5	0 (21/4		
4000 London African Trading*†	6	0 (2	a	
50000 London Chartd. Bank of Australia	10	0 (111/	0017	
27500 London and County	20	0		221/6				
40000 London Financial Association*†	20	0		65		63		
72000 London Joint-Stock†	25					534		
19000 London and South-Western*†	15	0		42		40		
50000 London and Westminstert	20	0				17		9.9
50000 London and Westminsterr	20	0		94		93	95	
17116 Metropoliton and Develople	11	10						
17156 Metropolitan and Provincial*†	20	0		101/2				
30000 Mineral Rights Association*	- 1	0						
20000 National of Australia†	4	0				5		
10000 National of Liverpool*f	15	0				15		
40000 National*	20	0		70		65		
27500 New South Walest	20						46	
40000 Union of Australia†	25	0 (49		
80000 Union of London†	15	0) .	45		44	45	

PROG	RESSIVE	MINES
1 1100	TERBOILE	WITH ED.

			SIVE MINES.	Shares. Mines. 12800 Prince of Wales, t, Calstock	Paid, Last Pr. Bus. done. Last (0 11 6 27s24s. 26sNov.	
	Share 4000 3000	Ballacorkish, Lof Man. 1. c*	Paid. Last Pr. Bus 1 10 0 2 6 8	Oct. 1866	12000 Redmoor, c, t, Callington 6000 Reinnie Laxey, t.I. of Man*	1 9 6 —
paid		Bedford Unit., c, Tavistk.* Bedol Aur, l, Holywell Billins, l, Flint Blaendyffryn, s-l*		July, 1866 Fully pd. Mar. 1866	5000 Rhafna, l, Carnarvon* 1024 Rose and Chiverton Untd. 2000 Rosecliff and Tolcarne*	5 0 0 5¼5¼ 5¾Nov.
186 186 186	5000 200	Bottle Hill, t, Plympton Brynford Hall, t, Flint	1 14 6	Sept. 1866 June, 1866 Jan. 1866	6000 Rosewarne Consols, c 3848 Rosewarne United, c, t,	5 2 6 — Feb. 1 3 10 6 15s ½ % Aug. 1 4 0 4 —
186 186 186	30000	Caldbeck Fells, l. Cumber.*	1 5 0	June, 1864 Sept. 1866 Feb. 1864	20500 Snaefell, l, Isle of Man* 400 Silver Brook, s-l, Carmar.*	2 0 0 —July, 1
1866 1866	111000	Camborne Consols, c Camborne Vn. & Wh. Fran. 1 Cape Cornwall, t, c* [8000 £21 Caradon & Phœnix Cons.*	10s, pd., 3000 los, pd.	July, 1866	4096 Sithney Wheal Metal, t 12000 Sortridge Cons., c, Tavist, t 512 South Basset, c, Gwennap. 2 1024 South Callington, s-l	2 0 8 8 3 4 Feb. 1
1866 1866 1866	1000	Caradon Cons., c, St. Cleer	31 3 6	Nov. 1866	3000 South Carn Brea, c, Illogan 3000 So. Chiverton, s, l, Perran,	8 10 6 —Jan. 1 5 15 0 —June 1
1866 1866 1866	5000 4005	Carnaryonshire, l* Cardigan Cons. * f 1000 £5 pd.	4 0 0 434434 3005 £4 58, pd.1	228Oct. 1866 5¼Fully pd. April,1866	2500 South Cornwall, t* 1 6138 So. Condurrow, t, c, Camb. 2283 South Crenver, c, Crowan 1	3 11 0 58 58 34May, 1 2 9 0 —Oct. 1
1866 1866 1866	20000	Carysfort [3200 £21/4 pd., 168	300 £1% pd.1	Mar. 1865	6000 S.Dolcoath&Carnarth.Con. 5000 So. Exmouth, l, Christow 5000 So. Foxdale, l, I. of Man*	9 17 0 Rob. 1
1866 1866	2500 2500 16000	Castell Carn Dochán, g* Cefn Cilcen, l, Flint* Central Minera, l* Central Snailbeach l	2 18 0 — 3 12 6 —	Aug. 1866 Nov. 1866 Fully pd,	5000 So. Foxdale, l, I. of Man*. 1024 So. Herodsfoot, l, Liskeard 4000 South Minera, l, Wrexham* 96 South Pant-y-Gof, l 2	7 0 0 May 1
1866 1866	3000	Central Minera, l* Central Snailbeach l Chiverton, l, Perranzabu. Chiverton Moor, l, Perranz, Coolartra & Bond*[5300 £1 pd.	9 2 6 76% 5 18 6 54%	1%Nov. 1866 1%Nov. 1866	937 So. Wh. Crofty, c, Illogan, 2	0 17 6 — Sept. 1 4 10 10. — 11 13 Feb. 1
$1866 \\ 1866 \\ 1866$	256 5000	Condurrow, c, t, Camborne 7 Connorree, c, sul, Wicklow* Cook's Kitchen, c, Illogan. 1 Copper Hill, c, Redruth 1	76 10 0 — 35 4 1 0 0 ½ ½	Fully pd.	496 So. Wh. Frances, c, Iliog.† 1 6000 South Wheal Grenville, t, c 4152 South Wheal Leisure, t, c. 400 So. Wh. Seton, c, Camborne 7	1 10 0 Feb. 1
$1866 \\ 1866 \\ 1866$	0000	Corning City and Line	1 0 0		512 South Tolgus, c, Redruth 3000 South Trevenna, t, c* 794 Spearne Cons., t, St. Just	0 10 0 —
1866 1866 1866		Cornwall Great Consols Crane, c, Camborne		May, 1866 July, 1866 July, 1866	280 Spearne Moor, t, St. Just	3 10 0 —
1866 1866 1866	35000 1 1000 1	Crane, c, Camborne	4 18 6 — 1 0 0 4s 2s. 3 12 4 0 —	3sFully pd.	9000 St. Just Cons. t [6000 £1 pd	12 0 — May, 18
1866 1866	4000 1	Devon Wheal Frances, c	1 4 6 1%1% 1	%Sept. 1866	7000 Stiperstones, l, Salop* 920 Stray Park, c, t, Cambornet 4 3500 Tin Hill, t, St. Austell	0 13 0 —1% 1%Oct. 18 0 —Jan. 18
1866 1866	656 1	Ding Dong t Gulval 4	8 14 6 —	Dec. 1866 Sept. 1865 June, 1864	572 Trelyon Consols, t, St. Ives. 1	3 1 6 — July, 18
1866 1866 1866	25000 I 3000 I	Dolfrwynog, g^*	0 12 6 ::	April, 1866 June, 1866	4440 Trevenen & Tremenheere 4096 Treweatha, s-l, Menheniot. 1943 Treworlis, t, Wendron 1	7 11 0 — June, 18 7 0 — Nov. 18
1866 1866	1000 1	East Basset and Grylls, t	3 5 0	July, 1865 [2000 Trumpet Cons., t, Helston. 1 6400 Tyne Head, t, c*	17 0 — Sept. 19
00-	4096 H 2000 H	E. Bottle Hill, t, Plympton East Brookwood, Holne East Buller, c, Gwennap	2 8 8 21/2	Oct. 1865 July, 1866 Mar. 1865	4200 Vlgra and Clogau, c, Dolg. 60000 Welsh Gold, Dolgelly	0 0 Fully p
865 865 865	2048 I 6000 I	East Chiverton, l , Perranz. S. Falmouth, s - l , Kenwyn. S. Grenville, c , Camborne. S.	2 6 9 — 5 0 6 — 3 3 6 2%1% 2	Sept. 1866 April,1864 Nov. 1866	1024 West Caradon, ct	0 0 Fully p 0 0 July, 18
865 865 865	4000 F	E. Gunnislake & S. Bed. c. S. East Holyford, c. Ireland.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Aug. 1866 Oct. 1866 April, 1865	256 West Damsel, c. Gwennap, 38	10 0 30 20 30
865 865	1000 F	Cast Laxey, l, Isle of Man*	2 10 0	Dec. 1865 Aug. 1866 Nov. 1866	5000 West Godolphin, t	00 -
	5000 E	Last Seton, c, Camborne	0 10 0 —	May, 1865 Dec. 1864 Oct. 1865	6000 Westminster, l*	0 0 5¼4¾ 5¼ Fully pd
866 866	nonn E	St Tuet ## F0000 02 10a nd	2000 P1 10s nd 1	Nov 1866	1056 West Stray Park, c, Camb. 11	2 6 — June, 18
866	4000 E 15000 E	ast Tolgus, c, Redruth 96 . Wh. Agar, c, St. Cleer 12 . Wh. Russell, Tavistock† 11 Illen Unit., c, z, St. Agnes* 1	1 14 0 314 3 314	Jan. 1865 Oct. 1866 Nov. 1866	512 W. Wh. Frances, t, Illogan 104 5000 W. Wh. Kitty, t, St. Agnes. 2 10000 W. Wh. Martha, c, s, Stoke. * 1	15 0 12 2 10 11 Aug. 180 13 6 6s 4s. 6s Sept. 180
865 y. 865	940 F 6000 F	owey Con.,c,Tywardreath 5 urze Hill Wood Con. Buckl. 1	5 1 6 ::	June, 1866 Feb. 1866	1360 W. Wh. Prosper, t, Lanivet	18 0Oct. 180
866 866	1026 G 4096 G	arden, t, Morvah 5 arlidna Unit t, Wendron 5	5 7 7	Mar. 1865 Mar. 1865 Feb. 1866	6000 Wheal Agar, c, Illogan	10 0 20 15 20 May, 186
866 866 866	6000 G	awton, c, Tavistock 3 en, Min. Co. for Ireland, c 4 lasgow Caradon c* [30000 £1]	1 00,, 3	Feb. 1866	1000 Wheal Curtis, c, Crowan 18 6000 Wheal Crebor, c, Tavistock 2 6144 Wh. Damsel, c, t, Gwennap 2	5 0 % ½ % Nov. 186 15 0 — July, 186
	6144 G	onamena, c, St. Cleer 5 othic, s-l, Cardigan* 2 rambler and St. Aubynt. 70	16 6	Dec. 1866	4096 Wh. Edward, c. Calstock 9 849 Wheal Emily Henrietta, c. 16 4000 Wh. Emma, c. Buckfastlei. 3	
353 365	4096 G 3000 G	reat Caradon, c, St. Ives. 3 t. East Lovell, t, Helston 2 reat Mona, l, Isle of Man* 3	1 1 0 12	Nov. 1866 Nov. 1866 June, 1866	6000 Wheal Grenville, c, Camb. † 9 4860 Wheal Hartley, c, Gwinear 2 6000 Wheal Ida, s-l, St. Ive 1 1024 Wh. Kitty, t, Uny Lelant†. 3	8 6 1¼1¼ 1¾Dec. 186 10 1 —May, 186 0 0 —Sept. 186
364 365 362	5000 G	reat North Downs, c 5	$\begin{array}{cccccccccccccccccccccccccccccccccccc$.Oct. 1866 4Feb. 1865	see Wh. Margaret, t. Unv Lel 19	17 C
663 664 864	6000 G	reat Retailack, s-l, b 1 reat South Chiverton, s-l. 1 t. So. Tolgus, c, Redruth. 6	1 19 6 98 198 98	July, 1866 1	100 Wheal Mary t, Lelant 36	4 10. — Oct. 189
365 359 364	3313 G 6000 G	reat West Chiverton, l 1 reat Wheal Baddern, t 7 t. Wh. Busy, c, t, Kenwyn 16	7 17 6 —	June, 1863	6000 Wh. Norris, t, c, St. Cleer. 4	6 1 —
64 63	110 C	t. Wh. Fortune, t, Breage 26 reat Work, t, Germoe100 rit and Stapeley, l* 10 unnislake (Clitters'), t, c. 4	0 0	Sept. 1866 July, 1864	1024 Who Par, t, St. Blazey 8 1024 Wheal Polmear, c 8	8 0 —Jan. 188 13 9 —Sept. 189
n.	6068 G	allenbeagle c. Kenwyn. 2	13 0 58. 78	Aug. 1866 Aug. 1866 Nov. 1866	1920 Wh. Trannack, c, Sithney. 1	14 0 — July, 180 12 3 — April, 180
66	6400 H	arwood, l, Durham* 0	6 0	Sept. 1864 Mar. 1866 June, 1866	1290 Wheal Trevenna, t, c*	1 3 — Aug. 180 0 0 — Aug. 180 10 0 % bs. 7s June, 180
66 66	6000 La 3000 La	avan, t , Cardigan logan, t , c	19 6 — 3 6 — 13 4 —	Oct. 1866 June, 1866 Mar. 1866	6000 Wheal Union, c, Redruth 5	1 11. — June, 186
66 66		elant Cons. t, Uny Lelant 35 evant, c, t, St. Just 10 evant United, St. Just 0		Mar. 1863 June, 1866		-
66 d.	1024 Lo 2000 Lo	over Park, l. Denbigh*. 3 nes-y-Safn, l*	11 0 = 3 31/4	Jan. 1864	MISCELLA	
62 d. 65	5000 Ma	erllyn, l, Flint 3	15 6 —	May, 1865	60000 Anglo-American Telegr.*† 10 20000 Anglo-Mexican Mint† 10 00000 Atlantic Telegraph*† 100	0 0 1715 16 xd 0 0 43 35 40
65 66	3000 Mi	nera Western Boundry 0	18 0	Aug. 1865	20000 Australian Agricultural [†] . 20 25000 Bolckow, Vaughan*† 17 6000 British American Land [†] . 44	10 0 — 16 18 10 0 — 16½18½ 0 0 25
36	1024 Na 4000 Na 512 Na	ount Pleasant, l, Mold 4 angles, t, c, Kea 26 inteos, l, Cardigan* 1 ant Minera, l* 6 anty Mines, l, Montgom. 30	5 0 16 14 15 0 0 — 10 0 —	Jan. 1865	34780 Brit. & Irish Mag. Teleg. *†100 50000 British Shipowners† 7	0 0 92 90 94 10 0
	250 Na 6000 Ne 14000 Ne	anty Mines, I, Montgom. 30 w Clifford, c, Gwennap* 2 w Cornish [12000 £1 pd., 1200 Crow Hill, I, St. Stephen 3	0 0 — 0 0 — 000 15s. pd.]	Mar. 1866	30000 City Discount*† 3	0 0 2
36	6400 Ne	ther Hearth, l, Dufton. 1	1 0	Sept. 1866	20000 City Offices*1	0 0
1.	400 Ne 6400 Ne	w Hendra, t, c, Breage 14	11 0	Nov. 1866	42000 Copper Miners of Eng. 7 [2000 £	25 pd., 40000 £100 pd.]
	960 Ne	w Tamar, s-l	14 0		002925Crystal Palacet	
-	4096 Ne 400 Ne	wtonards Min. Co. Down 50 w Wheal Lovell, t 1 w Wh. Seton, c , Cambn. 53 1	9 0 — 35 40	Aug. 1866 Sept. 1866	7500 Darjeeling*†	0 0 21½ 2½ 0 0 119½ 10½
1	6000 No	w Wheal Towan, c, t . 1 1 rth Devon, $s-l^*$ 0 1 Dolcoath, c , Camborne. 4	0 0	Oct. 1866 87	79975 Electric Telegraph † 100	0 0 41/241/2 43/4
,	6000 Not 1361 No. 6000 N.	rth Downs, c, Redruth 4 1 Grambler, c, Redruth 6 1 Hallenbeagle [8000 £1 pd., 800	11 4 14 9 00 8s. 6d. pd.]	Aug. 1866 2	20000 English and For. Credit* 7	10 0 —
2	6000 Not 2000 Not 0000 Nth	rth Jane, t, s-l, Kenwyn. 3 rth Levant, t, c, St. Just 10 n. Minera, l, Wrexham* 1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Fully pd. 9	2000 Home and Colon, Assur. ** 5	0 0
1 1	1000 N.1 1000 Not	Phonix.c, Linkinghorne 4 th Pool, c, Illogan 4 Roskear, c, Camborne. 48	18 6 —	Nov. 1866 8	00000 Hudson's Bay?	0 0 1716%16% 0 0 3 2 2½
1	2000 No.	Treskerby c St. Agnes 1	9 0 3 214 234	July, 1866 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 0 — 0 0 3½
	5610 Not	rth Wheal Basset, c, tt 5 rth Wheal Crofty, ct 3 1 Wh. Robert, Smp.Spiney 4	1 3 22% 3½ 6 5 – 7 4 –	July, 1866 2	199000 London and Caledonian † 5 2000 London Dist. Telegraph † 5 8525 London Gen. Omnibus † 4	0 0 2 1 2
1	2288 OK6 3000 Old 5000 Ors	Gunnislake, c, Calstock 2 1 edd, l, Flintshire 0	0 8 –	Aug. 1866	5000 London & Prov. Marine** 2	0 0 8 5 7
1	3000 Par 3465 Ped	and St. Blazey Cons. t, c 1 18 n-an-drea, t, Redruth. 5 19	0 6	July, 1866 1	0000 Marine Investment *† 6 2500 Mauritius Land, Cred., &c. *† 2 2000 Mediterranean Ex. Tel. *† 10	0 0 3 2 3
1	5000 Pen	deen Consols, c , St. Just 5 13 thale Wheal Vor, t , c . 2 14 thalls, t , St. Agnes 3 6 thale and Lomax, s - t . 1 14	5 0	.Oct. 1866 1	0000 Merchant Shipping*† 15 55000 Millwall Freehold Land†. 17 1 0000 Millwall Iron works*† 7 1 2500 Natal Land and Col *† 5	0 0 8
1	5000 Pen 512 Pen 5000 Pen	hale and Lomax, s-l 1 10 hallow Moor, s-l 9 10 ralt, s-l, Merioneth* 2 tre Lygan, l* 30	0 0 — 0 0 — 7 0 —	Sept. 1865 126	0000 National Discount*7 5	0 0 15¼ 14¾ 15 0 0
	512 Poll	breen, t. St. Agnes 8	0 0	Fully pd. 20	0000 National Frovin, Marine 7 2 1 0000 National Steam Naviga. *† 30 0000 N. British & Merc. Insur. † 6	0 0 — 0 0 17 5 0 16
10	0000 Pri	nce Arthur Consols, l* 2	0 0	Fully pd. 1	5000 Royal Mail Steam*† 60 rer; sl., slate; s-l, silver-lead; t, til	0 0 101 97 100
	* Comn				ility; those marked † have been ad	

	Mar. 1863 June, 1866	
	**	
3 334		MINGGERTTANDONE
0 074	Jan. 1864	MISCELLANEOUS.
	Jan. 1866	acces America American Malanus at an area areas
	May, 1865	100000000000000000000000000000000000000
	Jan. 1866	second Atlantia Telegraphet too oo in us in
	Sept. 1863	
	Aug. 1865	
	1111481 1000	25000 Bolckow, Vaughan*† 17 10 0 — 16½18½ 6000 British American Land† 44 0 0 25
14 15	Oct. 1866	
	Fully pd.	
	Jan. 1865	25000 Ceylon Company*† 10 0 0 0 94
	Aug. 1866	
	Mar. 1866	1 accord City Discounts 9 0 0
	Sept. 1866	
	Aug. 1866	asses (the of Massess Clark) on to a
	Sept. 1866	
	May, 1865	I soon Commercial Uni (Inc.)4 5 0 0 517 497 517
	Mar. 1866	42000 Copper Miners of Eng. + [2000 £25 pd., 40000 £100 pd.]
	Nov. 1866	
	44	1002925Crystal Palacet
	May, 1866	160820 ditto preference 100 0 0 110 107 110
	May, 1866	277000 ditto 6 per cent. p.d. +100 0 0 110 107 110
		7500 Darjeeling*† 14 0 0 10 8 10
	Aug. 1866	20000 E. Indian Land, Credit*t. 10 0 0 211/2 21/4
5 40	Sept. 1866	50000 E. India Irriga. & Canalt. 15 0 0 119 10 10.
	July, 1866	80000 Ebbw Vale Iron Co. ** 93 0 0 111/
	July, 1866	100000 Egyptlan Com. & Tradg. *† 9 0 0 41/241/2 43/4
	Oct. 1866	879975 Electric Telegraph t 100 0 0 138
	Aug. 1866	20000 English and For. Credit* 7 10 0
	Aug. 1866	25000 Fairbairn Engineering*+. 5 0 0 41/2 3 4
	July, 1865	30000 Fore-street Warehouse 12 0 0., 13 1234 13
	Sept. 1866	20000 General Stm. Navigation 14 0 0 27 25 27
	Sept. 1866	4000 Hollybush Col. and Coke* 5 0 0
	Fully pd.	20000 Home and Colon. Assur. * 5 0 0 2 11/4
	May, 1864	100000 Hudson's Bay 20 0 0 1716%16%
	Nov. 1866	80060 Im. Land Co. Mersailles* 10 0 0 3 2 21/4
3 4	Nov. 1866	100000 Imperial Mercan. Credit* 7 10 0
	July, 1866	50000 Indian Carrying* 1 15 0
234	**	30000 Italian Land 5 0 0 31/2
	April,1866	20000 Land Securities * 5 0 0 4 1 2
31/8	July, 1866	20000 London and Caledonian*† 5 0 0 2 1 2
	Feb. 1866	12060 London Dist. Telegraph * 5 0 0 11/2 3/4 11/4
	Aug. 1866	148525 London Gen. Omnibus *† 4 0 0 31/4 3 31/4
	Aug. 1866	5000 London and Glas. Engl. *† 25 0 0 8 5 7 64500 London & Prov. Marine *† 2 0 0 214134 214
	Nov. 1866	
	Sept. 1866	12500 Mauritius Land, Cred., &c. *† 2 0 0. 1¼1¼ 1¾ 12000 Mediterranean Ex. Tel. *† 10 0 0. 3 2 3
	July, 1866	
	.Oct. 1866	groop Millwall Emphold Lands 17 10 0 1614 F. c.
	May, 1866	
	Oct. 1866	oeron Notal Land and Col st c n n n
	.Sept. 1865	
	.Feb. 1865	
	May, 1854	good Wattern Provin Maninest 9 10 0
	Fully pd.	*0000 National Steam Naviga #4 90 0 0 17
	Aug. 1860	40000 N. British & Merc. Insur. + 6 5 0. 16
	Fully pd.	12000 Novel Mail Steam #4 60 0 0 101 00 100
	and but	15000 Royal Mail Steam +7 60 0 0 101 97 100

*. * Companies marked thus * have been incorporated with Limited Liability; those marked † have been admitted on the Stock Excharge

. Our object being to make the Share List correct, we earnestly call upon those who have the power to aid us, by forwarding any alter-tions or correction which may, from time to time, come under their notice. To shareholders, as well as those officially connected with the mines, we appeal for information. Reports from mines—in fact, mining intelligence of every description, forwarded to our office, will meet with ready attention.

London: Printed by Righard Middleton, and published by Henry English (the proprietors), at their office, 26, Fleet Street, E.C. where all communications are requested to be addressed.—December 8, 1866.